

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48

ring bonds :

1-2 1-6 2-3 3-4 4-5 4-47 5-6 6-46 7-8 7-12 8-9 8-38 9-10 10-11 11-12 12-39
13-14 13-18 14-15 14-43 15-16 16-17 16-42 17-18 19-20 19-24 19-48 20-21 21-22 21-22
22-23 23-24 24-37 25-26 25-30 26-27 27-28 28-29 28-45 29-30 29-44 31-32 31-36
31-41 32-33 32-40 33-34 34-35 35-36 37-38 39-40 41-42 43-44 45-46 47-48

exact/norm bonds :

4-47 6-46 8-38 12-39 14-43 16-42 19-20 19-24 19-48 20-21 21-22 22-23 23-24
24-37 25-26 25-30 26-27 27-28 28-29 28-45 29-30 29-44 31-32 31-36 31-41 32-33
32-40 33-34 34-35 35-36 37-38 39-40 41-42 43-44 45-46 47-48

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-18 14-15
15-16 16-17 17-18

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom
32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:Atom 41:Atom
42:Atom 43:Atom 44:Atom 45:Atom 46:CLASS 47:Atom 48:Atom

10/071,377

=> d his

(FILE 'HOME' ENTERED AT 12:15:54 ON 16 JUN 2004)

FILE 'REGISTRY' ENTERED AT 12:16:19 ON 16 JUN 2004

L1	STRUCTURE UPLOADED
L2	QUE L1
L3	50 S L2
L4	STRUCTURE UPLOADED
L5	QUE L4
L6	STRUCTURE UPLOADED
L7	QUE L6
L8	5 S L7
L9	79 S L7 SSS FUL

FILE 'CAPLUS' ENTERED AT 12:21:59 ON 16 JUN 2004

L10	19 S L9
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=> d ibib abs hitstr 1-19

10/071,377

L10 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2003:83641 CAPLUS
 DOCUMENT NUMBER: 139:137996
 TITLE: Preparation of macrocyclic module compositions
 Kriesel, Josh; Karpishin, Timothy R.; Bivin, Donald
 B.; Merrill, Grant; Stuart, Edelstein Martin; Smith,
 Thomas H.; Whiteford, Jeffery A.; Jonas, Robert
 Thomas
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 62 pp., Cont.-in-part of U.S.
 Ser. No. 71,377.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003199688	A1	20031023	US 2002-226400	20020823
US 2004034223	A1	20040219	US 2002-71377	20020207
WO 2003067286	A2	20030814	WO 2003 US3829	20030207
WO 2003067286	A3	20040415		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG

WO 2003066646 A2 20030814 WO 2003 US3830 20030207
 WO 2003066646 A3 20040212

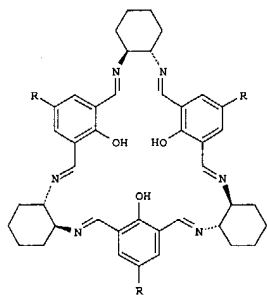
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPL. INFO.:
 US 2002-71377 A2 20020207
 US 2002-38236P P 20020522
 US 2002-226400 A 20020823

OTHER SOURCE(S): MARPAT 139:137996
 GI

L10 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

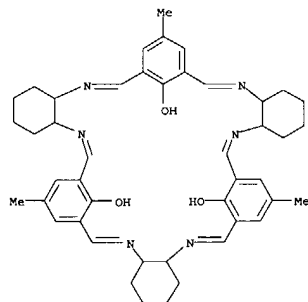


AB Macrocyclic module compns. are made from cyclic synthons. The macrocyclic module structures are prepared by stepwise or concerted schemes which couple synthons in a closed ring. The macrocyclic module structures may have a pore of nanometer dimensions which transports a selected species through the composition. Thus, To 0.300 g (1R,2R)-(-)-trans-1,2-diaminocyclohexane (2.63 mmol) in 6 mL CH₂Cl₂ at 0° was added 0.826 g 2,6-diformyl-4-(1-dodecyl-1-ynyl)phenol (2.63 mmol) in 6 mL of CH₂Cl₂. The orange solution was stirred at 0° for 1 h and then allowed to warm to room temperature after which stirring was continued for 16 h, and added to 150 mL methanol. After decanting the methanol solution, a sticky yellow solid was obtained and purified by chromatog. to give a macrocyclic compound (I; R = 1-dodecyl-1-ynyl) as a yellow powder. The compound I was inserted into a lipid bilayer formed by phosphatidylcholine and phosphatidylethanolamine. The pore size of the compound I was 3.3 Å. Permeation of various ionic species through the bilayer was tested when a pos. elec. potential was applied to the solution on the side of the lipid bilayer containing the test species. Ionic species such as Na⁺, K⁺, Ca²⁺, NH₄⁺, Cs⁺, and MeNH₄⁺ were transported through the pore whereas Li⁺, Mg²⁺, EtNH₄⁺, NMe₄⁺, NEt₄⁺, aminoguanidine, choline, glucosamine, and NPr₄⁺ were blocked.

IT 210156-92-6P 581100-42-7P 581100-51-8P 581100-52-9P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation of macrocyclic module compns. with nanometer pores from cyclic

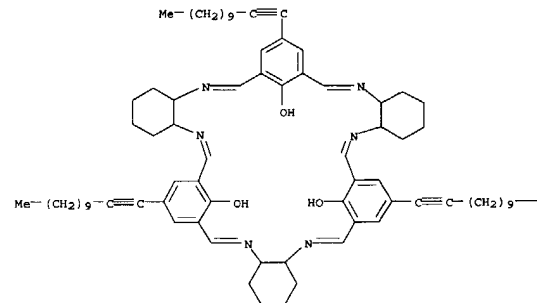
L10 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 synthons for lipid bilayer selectively transporting cationic species)
 RN 210156-92-6 CAPLUS
 CN
 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x] [1,4,12,15,23,26]hexaazacycl
 otritriacontine-40,41,42-triol,
 1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,2
 9,30,30a,39a-octadecahydro-9,22,35-trimethyl-,
 (4aR,5E,12E,13aR,17aR,18E,25E,26aR,30aR,31E,39aR)- (9CI) (CA INDEX NAME)



RN 581100-42-7 CAPLUS
 CN
 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x] [1,4,12,15,23,26]hexaazacycl
 otritriacontine-40,41,42-triol, 9,22,35-tri-1-dodecynyl-
 1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,29,30,30a,39a-octadecahydro-,
 (4aR,13aR,17aR,26aR,30aR,39aR)- (9CI) (CA INDEX NAME)

L10 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B

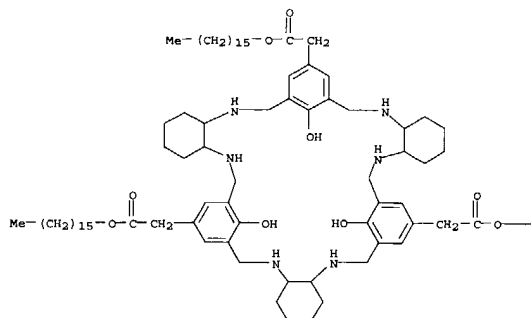
—Me

RN 581100-51-8 CAPLUS
 CN
 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x] [1,4,12,15,23,26]hexaazacycl
 otritriacontine-9,22,35-triacetic acid,
 1,2,3,4,4a,5,6,12,13,13a,14,15,16,
 17,17a,18,19,25,26,26a,27,28,29,30,30a,31,32,38,39,39a-triacontahydro-
 40,41,42-trihydroxy-, trihexadecyl ester, (4aR,13aR,17aR,26aR,30aR,39aR)-
 (9CI) (CA INDEX NAME)

10/071,377

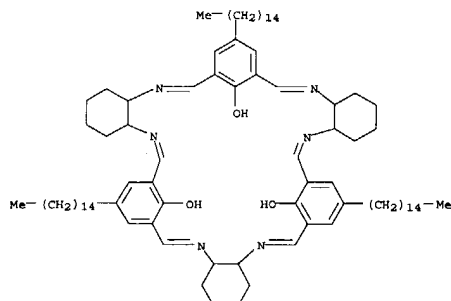
L10 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B

L10 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
9,30,30a,39a-octadecahydro-9,22,35-tripentadecyl-,
(4aR,13aR,17aR,26aR,30aR,39aR)- (9CI) (CA INDEX NAME)

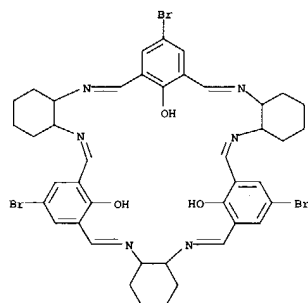


IT 581100-41-6P 581100-43-6P 581100-45-0P
581100-56-3P 615574-00-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of macrocyclic module compns. with nanometer pores from
cyclic synthons for lipid bilayer selectively transporting cationic species)
RN 581100-41-6 CAPLUS
CN
11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacycl
otritriacontine 40,41,42-triol, 9,22,35-tribromo-
1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,29,30,30a,39a-octadecahydro-,
(4aR,13aR,17aR,26aR,30aR,39aR)- (9CI) (CA INDEX NAME)

—(CH₂)₁₅—Me

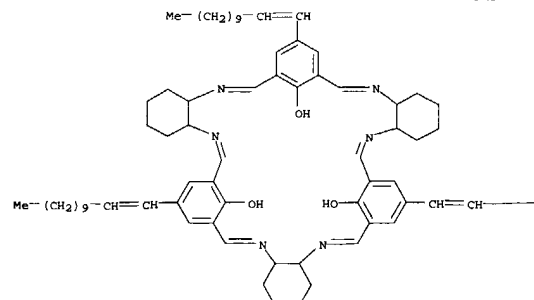
RN 581100-52-9 CAPLUS
CN
11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacycl
otritriacontine-40,41,42-triol,
1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,29

L10 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 581100-43-8 CAPLUS
CN
11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacycl
otritriacontine 40,41,42-triol, 9,22,35 tri-(12)-1-dodeceny-
1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,29,30,30a,39a-octadecahydro-,
(4aR,13aR,17aR,26aR,30aR,39aR)- (9CI) (CA INDEX NAME)

PAGE 1-A

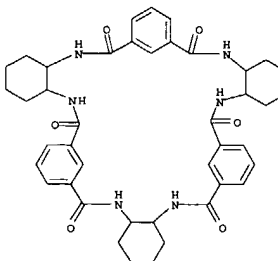


L10 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B

—(CH₂)₉—Me

RN 581100-45-0 CAPLUS
CN
11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacycl
otritriacontine-6,12,19,25,32,38-hexone,
1,2,3,4,4a,5,13,13a,14,15,16,17,1
7a,18,26,26a,27,28,29,30,30a,31,39,39a-tetracosahydro-,
(4aR,13aR,17aR,26aR,30aR,39aR)- (9CI) (CA INDEX NAME)

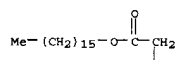


RN 581100-56-3 CAPLUS
CN
11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacycl
otritriacontine-9,22,35-triacetic acid,
1,2,3,4,4a,13a,14,15,16,17,17a,26a
27,28,29,30,30a,39a-octadecahydro-40,41,42-trihydroxy-, trihexadecyl
ester, (4aR,13aR,17aR,26aR,30aR,39aR)- (9CI) (CA INDEX NAME)

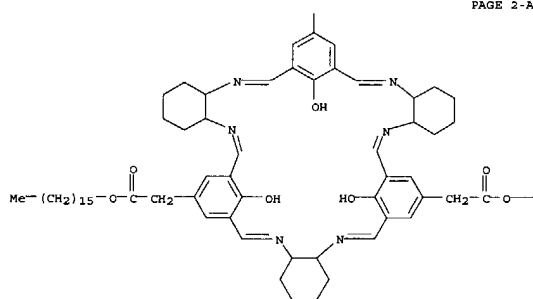
10/071,377

L10 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A

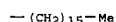


PAGE 2-A



L10 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

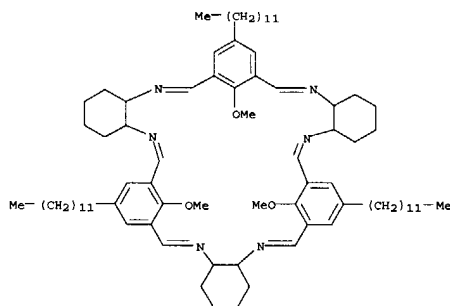
PAGE 2-B



RN 615574-00-0 CAPLUS

CN

11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacycl
otritriacontine,
9,22,35-tridodecyl-1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,
28,29,30,30a,39a-octadecahydro-40,41,42-trimethoxy-,
(4aR,13aR,17aR,26aR,30aR,39aR)-(9CI) (CA INDEX NAME)



IT 615574-01-1 615574-03-3 615574-04-4

615574-15-7

RL: PRP (Properties)

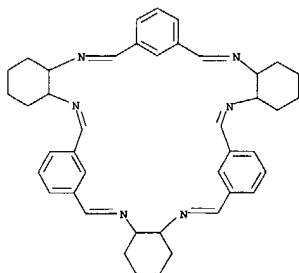
(quantum and mol. mech. computations of pore areas)

RN 615574-01-1 CAPLUS

L10 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

CN

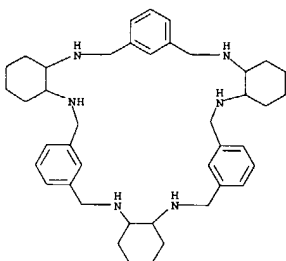
11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacycl
otritriacontine, 1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,29,30,30a,39a-
octadecahydro-,
(4aR,5E,12E,13aR,17aR,18E,25E,26aR,30aR,31E,38E,39aR)-rel-
(9CI) (CA INDEX NAME)



RN 615574-03-3 CAPLUS

CN

11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacycl
otritriacontine,
1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a,18,19,25,26,26a,
27,28,29,30,38,31,32,38,39,39a-triacontahydro-,
(4aR,13aR,17aR,26aR,30aR,39aR)-rel- (9CI) (CA INDEX NAME)

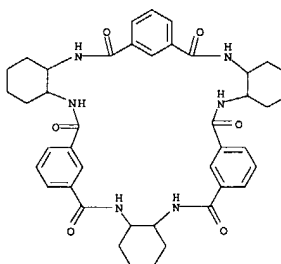


L10 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 615574-04-4 CAPLUS

CN

11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacycl
otritriacontine-6,12,19,25,32,38-hexone,
1,2,3,4,4a,5,13,13a,14,15,16,17,1
7a,18,26,26a,27,28,29,30,30a,31,39,39a-tetracosahydro-,
(4aR,13aR,17aR,26aR,30aR,39aR)-rel- (9CI) (CA INDEX NAME)



RN 615574-15-7 CAPLUS

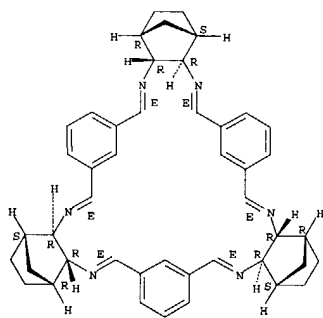
CN

1,4:14,17:27,30-Trimetheno-11,7:20,24:33,37-trimetheno-7H-
tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine,
1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,29,30,30a,39a-octadecahydro-,
(1R,4S,4aR,5E,12E,13aR,14R,17S,17aR,18E,25E,26aR,27R,30S,30aR,31E,38E,39aR
) rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.

10/071,377

L10 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

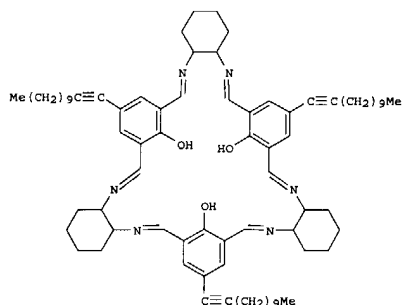


L10 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2003:633724 CAPLUS
 DOCUMENT NUMBER: 139:180091
 TITLE: Macrocyclic module compositions
 INVENTOR(S): Kriesel, Josh; Karpishin, Timothy B.; Bivin, Donald B.; Merrill, Grant; Edelman, Martin Stuart; Smith, Thomas H.; Whiteford, Jeffery A.; Jonas, Robert

Thomas
 PATENT ASSIGNEE(S): Covalent Partners, LLC, USA
 SOURCE: PCT Int. Appl., 105 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003066646	A2	20030814	WO 2003-US3830	20030207
WO 2003066646	A3	20040212		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004034223	A1	20040219	US 2002-71377	20020207
US 2003199688	A1	20031023	US 2002-226400	20020823
PRIORITY APPLM. INFO.:			US 2002-71377	A 20020207
			US 2002-226400	A 20020823
OTHER SOURCE(S):			MARPAT 139:180091	
GI				

L10 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



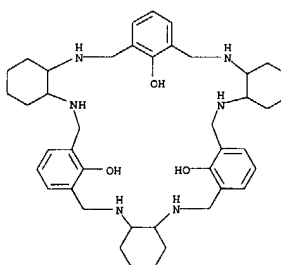
AB Macrocyclic module compns. are made from cyclic synthons. The macrocyclic module structures are prepared by stepwise or concerted schemes which couple

synthons in a closed ring. The macrocyclic module structures may have a pore of nanometer dimensions. Thus, 4-BrC₆H₄OH was diformylated and treated with 1-dodecyne to give HOC₆H₂(CHO)₂C.tplbond.C(CH₂)₉Me 2,6,4 which was cyclized with (1R,2R)-1,2-cyclohexanediamine to give the macrocycle I for which pore size was tested with a series of cations.

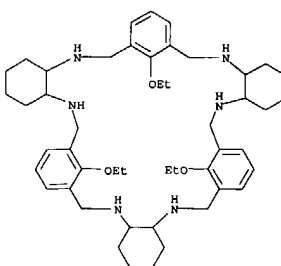
IT 581100-49-4 581100-50-7 581100-52-9
 RL: PRP (Properties)
 (preparation of macrocyclic module compns.)

RN 581100-49-4 CAPLUS
 CN 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x] [1,4,12,15,23,26]hexaazacycl otritriacontine-40,41,42-triol,
 1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a,1
 8,19,25,26,26a,27,28,29,30,30a,31,32,38,39,39a-triacontahydro-,
 (4aR,13aR,17aR,26aR,30aR,39aR) - (9CI) (CA INDEX NAME)

L10 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



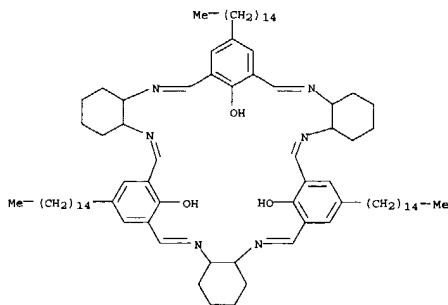
RN 581100-50-7 CAPLUS
 CN 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x] [1,4,12,15,23,26]hexaazacycl otritriacontine,
 40,41,42-triethoxy-1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,1
 7a,18,19,25,26,26a,27,28,29,30,30a,31,32,38,39,39a-triacontahydro-,
 (4aR,13aR,17aR,26aR,30aR,39aR) - (9CI) (CA INDEX NAME)



RN 581100-52-9 CAPLUS
 CN 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x] [1,4,12,15,23,26]hexaazacycl otritriacontine-40,41,42-triol,
 1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,2
 9,30,30a,39a-octadecahydro-9,22,35-tripentadecyl-,
 (4aR,13aR,17aR,26aR,30aR,39aR) - (9CI) (CA INDEX NAME)

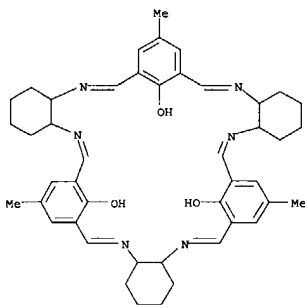
10/071,377

L10 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



IT 581100-51-8P
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of macrocyclic module compns.)
 RN 581100-51-8 CAPLUS
 CN
 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x] [1,4,12,15,23,26]hexaazacyclotriacentine-9,22,35-triacetic acid, 1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a,18,19,25,26,26a,27,28,29,30,30a,31,32,38,39,39a-triacontahydro-40,41,42-trihydroxy-, trihexadecyl ester, (4aR,13aR,17aR,26aR,30aR,39aR) - (9CI) (CA INDEX NAME)

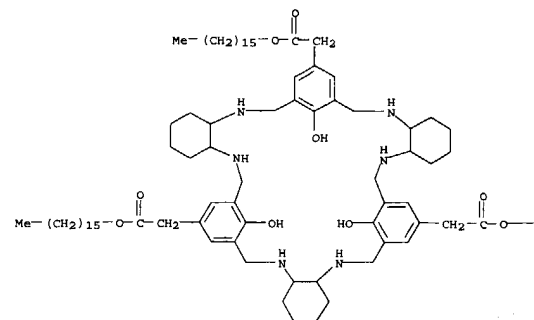
L10 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 otritriacontine-40,41,42-triol, 1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,29,30,30a,39a-octadecahydro-9,22,35-trimethyl-, (4aR,5E,12E,13aR,17aR,18E,25E,26aR,30aR,31E,39aR) - (9CI) (CA INDEX NAME)



RN 581100-42-7 CAPLUS
 CN
 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x] [1,4,12,15,23,26]hexaazacyclotriacentine-40,41,42-triol, 9,22,35-tri-1-dodecynyl-, 1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,29,30,30a,39a-octadecahydro-, (4aR,13aR,17aR,26aR,30aR,39aR) - (9CI) (CA INDEX NAME)

L10 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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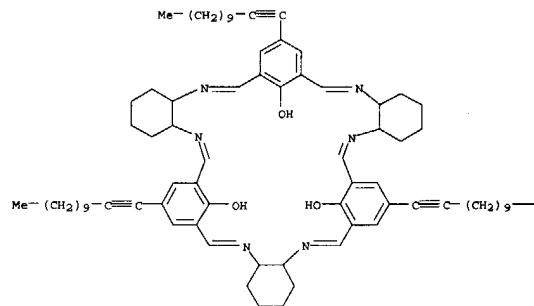
PAGE 1-B

—(CH2)15—Me

IT 210156-92-6P 581100-42-7P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation of macrocyclic module compns.)
 RN 210156-92-6 CAPLUS
 CN
 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x] [1,4,12,15,23,26]hexaazacyclotriacentine-40,41,42-triol, 9,22,35-tri-1-dodecynyl-, 1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,29,30,30a,39a-octadecahydro-, (4aR,13aR,17aR,26aR,30aR,39aR) - (9CI) (CA INDEX NAME)

L10 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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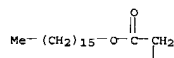
—Me

IT 581100-56-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of macrocyclic module compns.)
 RN 581100-56-3 CAPLUS
 CN
 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x] [1,4,12,15,23,26]hexaazacyclotriacentine-9,22,35-triacetic acid, 1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,29,30,30a,39a-octadecahydro-40,41,42-trihydroxy-, trihexadecyl ester, (4aR,13aR,17aR,26aR,30aR,39aR) - (9CI) (CA INDEX NAME)

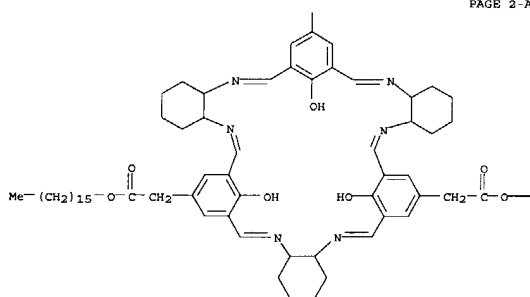
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L10 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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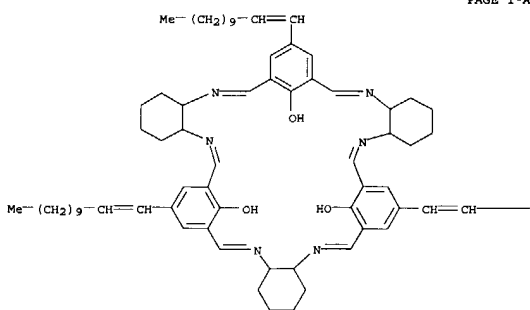


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L10 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
otritriacontine-40,41,42-triol, 9,22,35-tri-(12)-1-dodecyl-
1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,29,30,30a,39a-octadecahydro-,
(4aR,13aR,17aR,26aR,30aR,39aR) - (9CI) (CA INDEX NAME)

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—(CH₂)₉—Me

RN 581100-45-0 CAPLUS
CN
11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x] [1,4,12,15,23,26]hexaazacycl
otritriacontine-6,12,19,25,32,38-hexone,
1,2,3,4,4a,5,13,13a,14,15,16,17,1
7a,18,26,26a,27,28,29,30,30a,31,39,39a-tetracosahydro-,
(4aR,13aR,17aR,26aR,30aR,39aR) - (9CI) (CA INDEX NAME)

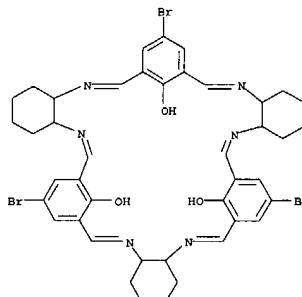
Page 7

L10 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 2-B

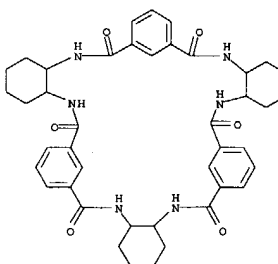
—(CH₂)₁₅—Me

IT 581100-41-6P 581100-43-8P 581100-45-0P
581100-57-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(Preparation of macrocyclic module compns.)
RN 581100-41-6 CAPLUS
CN
11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x] [1,4,12,15,23,26]hexaazacycl
otritriacontine-40,41,42-triol, 9,22,35-tribromo-
1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,29,30,30a,39a-octadecahydro-,
(4aR,13aR,17aR,26aR,30aR,39aR) - (9CI) (CA INDEX NAME)



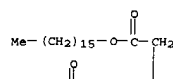
RN 581100-43-8 CAPLUS
CN
11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x] [1,4,12,15,23,26]hexaazacycl

L10 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 581100-57-4 CAPLUS
CN
11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x] [1,4,12,15,23,26]hexaazacycl
otritriacontine-9,22,35-triacetic acid,
1,2,3,4,4a,5,6,12,13,13a,14,15,16,
17,17a,18,19,25,26,26a,27,28,29,30,30a,31,32,38,39,39a-triacontahydro-
5,13,18,26,31,39-hexakis(1-oxo-2-propenyl)-40,41,42-tris[(1-oxo-2-
propenyl)oxy]-, trihexadecyl ester, (4aR,13aR,17aR,26aR,30aR,39aR) - (9CI)
(CA INDEX NAME)

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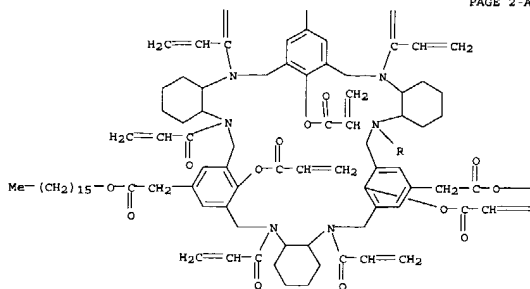


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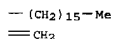
L10 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L10 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

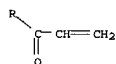
PAGE 2-A



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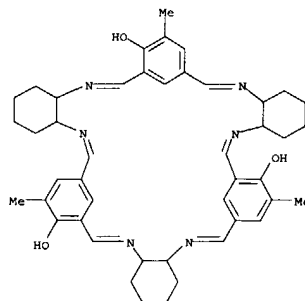


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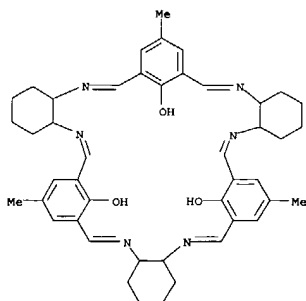


L10 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2003:455533 CAPLUS
 DOCUMENT NUMBER: 139:230753
 TITLE: Chiral calixalen-type macrocycles from trans-1,2-diaminocyclohexane
 AUTHOR(S): Kwit, M.; Gawronski, J.
 CORPORATE SOURCE: Department of Chemistry, A. Mickiewicz University, Poznan, 60 780, Pol.
 SOURCE: Tetrahedron: Asymmetry (2003), 14(10), 1303-1308
 CODEN: TASYE3; ISSN: 0957-4166
 PUBLISHER: Elsevier Science B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 139:230753
 AB The title compds. are obtained from the [3+3] cyclocondensation of trans-1,2-diaminocyclohexane with 5,2-Me(HO)C₆H₂(CHO)2-1,3 or 5,4-Me(HO)C₆H₂(CHO)2-1,3 and have vase-like structures.
 IT 210156-92-6P 593281-56-2P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation a conformation of calixalen-type macrocycles from trans-1,2-diaminocyclohexane and isophthalaldehydes)
 RN 210156-92-6 CAPLUS
 CN
 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x] [1,4,12,15,23,26]hexaazacyclotri-triacontine-40,41,42-triol,
 1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,29,30,30a,39a-octadecahydro-9,22,35-trimethyl-,
 (4aR,5E,12E,13aR,17aR,18E,25E,26aR,30aR,31E,39aR) - (9CI) (CA INDEX NAME)

L10 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



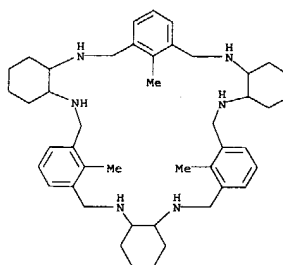
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT



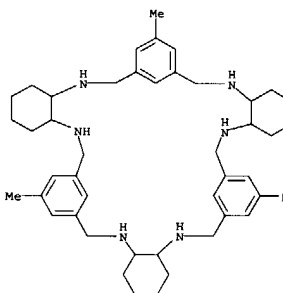
RN 593281-56-2 CAPLUS
 CN
 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x] [1,4,12,15,23,26]hexaazacyclotri-triacontine-40,41,42-triol,
 1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,29,30,30a,39a-octadecahydro-9,22,35-trimethyl-,
 (4aR,5E,12E,13aR,17aR,18E,25E,26aR,30aR,31E,38E,39aR) - (9CI) (CA INDEX

L10 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2003:388763 CAPLUS
 DOCUMENT NUMBER: 139:230749
 TITLE: The synthesis of trianglimines: On the scope and limitations of the [3 + 3] cyclocondensation reaction between (1R,2R)-diaminocyclohexane and aromatic dicarboxaldehydes
 AUTHOR(S): Kuhnert, Nikolai; Rossignolo, Giulia M.; Lopez-Periago, Ana
 CORPORATE SOURCE: Synthetic and Biol. Org. Chem. Lab., Dep. of Chem., Univ. of Surrey, Guilford, GU2 7XH, UK
 SOURCE: Organic & Biomolecular Chemistry (2003), 1(7), 1157-1170
 PUBLISHER: CODEN: OBCRAK; ISSN: 1477-0520
 DOCUMENT TYPE: Royal Society of Chemistry
 LANGUAGE: Journal
 OTHER SOURCE(S): CASREACT 139:230749
 AB The synthesis of aromatic dicarboxaldehydes, using dilithiation methodol. is described along with their reactivity, in the [3 + 3] cyclocondensation reaction, with (1R,2R)-diaminocyclohexane to give triaglimine macrocycles. The scope and limitations of the cyclocondensation reaction are studied and some comments on the properties of the novel macrocycles are made such as their conformation in solution and temperature dependent dynamic NMR behavior.
 IT 459166-69-9P 459166-70-2P 592507-30-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of triaglimines via macrocyclization of corresponding aromatic dicarboxaldehydes and diaminocyclohexane)
 RN 459166-69-9 CAPLUS
 CN 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine,
 1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a,18,19,25,26,26a,
 27,28,29,30,30a,31,32,38,39,39a-triacontahydro-40,41,42-trimethyl-, (4aR,13aR,17aR,26aR,30aR,39aR) - (9CI) (CA INDEX NAME)

L10 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

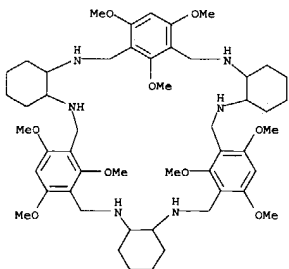


RN 459166-70-2 CAPLUS
 CN 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine,
 1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a,18,19,25,26,26a,
 27,28,29,30,30a,31,32,38,39,39a-triacontahydro-9,22,35-trimethyl-, (4aR,13aR,17aR,26aR,30aR,39aR) - (9CI) (CA INDEX NAME)



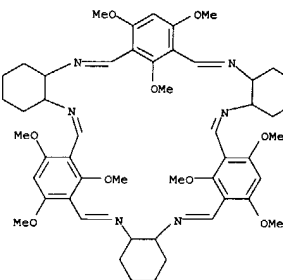
RN 592507-30-7 CAPLUS

L10 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 CN 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine,
 1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a,18,19,25,26,26a,
 27,28,29,30,30a,31,32,38,39,39a-triacontahydro-8,10,21,23,34,36,40,41,42-nonamethoxy-, stereoisomer (9CI) (CA INDEX NAME)

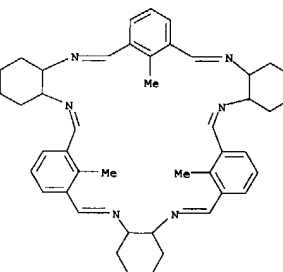


IT 592507-26-1P 592507-42-1P 592507-43-2P
 RL: RCT (Reactant), SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (reduction of: preparation of triaglimines via macrocyclization of corresponding aromatic dicarboxaldehydes and diaminocyclohexane)
 RN 592507-26-1 CAPLUS
 CN 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine, 1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,29,30,30a,39a-octadecahydro-8,10,21,23,34,36,40,41,42-nonamethoxy-, stereoisomer (9CI) (CA INDEX NAME)

L10 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



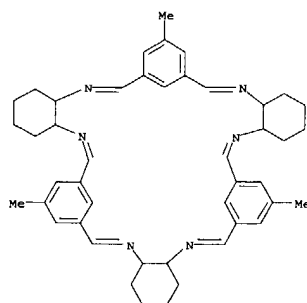
RN 592507-42-1 CAPLUS
 CN 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine, 1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,29,30,30a,39a-octadecahydro-40,41,42-trimethyl-, stereoisomer (9CI) (CA INDEX NAME)



RN 592507-43-2 CAPLUS
 CN 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine, 1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,29,30,30a,39a-octadecahydro-9,22,35-trimethyl-, stereoisomer (9CI) (CA INDEX NAME)

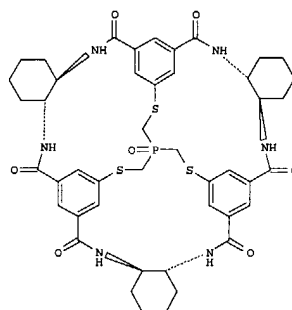
10/071,377

L10 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2003:251299 CAPLUS
 DOCUMENT NUMBER: 139:7141
 TITLE: Bowl Shaped C3-Symmetric Receptor with Concave Phosphine Oxide with a Remarkable Selectivity for Asparagine Derivatives
 AUTHOR(S): Lee, Kwan Hee; Lee, Dong Hoon; Hwang, Sungu; Lee, One Sun; Chung, Doo Soo; Hong, Jong-In
 CORPORATE SOURCE: School of Chemistry, College of Natural Sciences, Seoul National University, Seoul, 151-747, S. Korea
 SOURCE: Organic Letters (2003), 5(9), 1431-1433
 CODEN: ORLEP7; ISSN: 1523-7060
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 139:7141
 GI



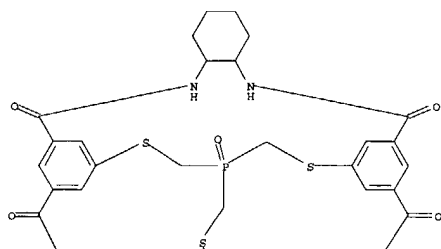
I

AB Macrocyclic I is a bowl-shaped C3-sym. receptor that has a phosphine oxide functionality in the interior of a "mol. bowl" and it shows remarkable selectivity for asparagine derivate.
 IT 535933-69-8
 RL: PRP (Properties)
 (energy-minimized structure of 1:1 complex of asparagine with bowl-shaped, C3-sym. cyclic receptor with a phosphine oxide moiety)
 RN 535933-69-8 CAPLUS
 CN Butanediamide, 2-amino-N1-propyl-, (2R)-, mono(trifluoroacetate), compd. with stereoisomer of
 1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,2

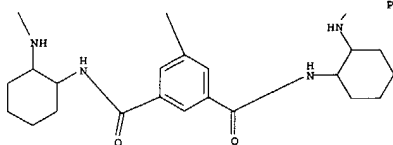
L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 9,30,30a,31,39,39a-tetracosahydro-22,43-(epithiomethano)-9,35-(epithiomethanophosphinidenemethanothio)-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-6,12,19,25,32,38-hexone 43-oxide (1:1) (9CI) (CA INDEX NAME)

CM 1
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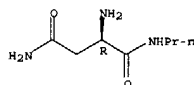
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 CRN 533935-72-7
 CMF C7 H15 N3 O2 . C2 H F3 O2

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L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

CM 3
 CRN 533935-71-6
 CMF C7 H15 N3 O2

Absolute stereochemistry.



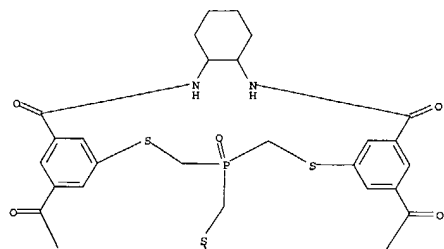
CM 4
 CRN 76-05-1
 CMF C2 H F3 O2



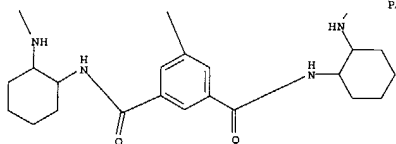
IT 535933-20-1P
 RL: PEP (Physical, engineering or chemical process); PRP (Properties);
 PYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
 (major product; preparation of a bowl-shaped, C3-sym. cyclic receptor containing a concave phosphine oxide moiety to study selective binding of amino acid enantiomers)
 RN 535933-20-1 CAPLUS
 CN 22,43-(Epithiomethano)-9,35-(epithiomethanophosphinidenemethanothio)-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-6,12,19,25,32,38-hexone, 1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a-tetracosahydro-, 43-oxide, stereoisomer (9CI) (CA INDEX NAME)

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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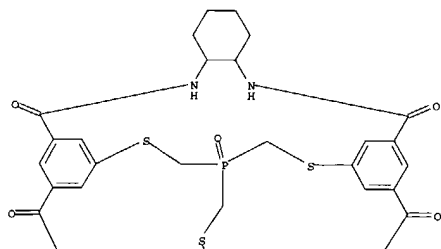
PAGE 2-A



IT 535933-21-2P
 RL: PEP (Physical, engineering or chemical process); PRP (Properties);
 PYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
 (minor product; preparation of a bowl-shaped, C3-sym. cyclic receptor containing a concave phosphine oxide moiety to study selective binding of amino acid enantiomers)
 RN 535933-21-2 CAPLUS
 CN 22,43-(Epithiomethano)-9,35-(epithiomethanophosphinidenemethanothio)-

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 535933-54-1 535933-56-3 535933-59-6
 535933-62-1 535933-63-2 535933-65-4
 535933-66-5 535933-68-7
 RL: FMU (Formation, unclassified); PRP (Properties); FORM (Formation, nonpreparative)
 (selective binding of amino acid enantiomers from a racemic mixt. by a bowl-shaped, C3-sym. cyclic receptor with a phosphine oxide moiety)
 RN 535933-24-5 CAPLUS
 CN Butanamide, 2-amino-N-dodecyl-3-methyl-, (2R)-, mono(trifluoroacetate), compd. with stereoisomer of
 1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a-tetracosahydro-22,43-(epithiomethano)-9,35-(epithiomethanophosphinidenemethanothio)-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-6,12,19,25,32,38-hexone 43-oxide (1:1) (9CI) (CA INDEX NAME)
 CM 1
 CRN 535933-20-1
 CMP C45 H51 N6 O7 P S3

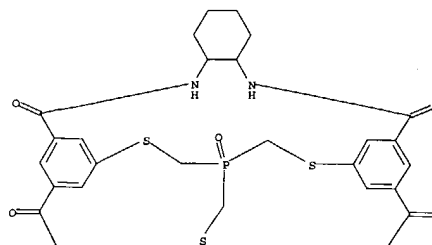
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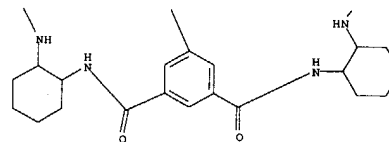
L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-6,12,19,25,32,38-hexone,
 1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a-tetracosahydro-, 43-oxide, stereoisomer (9CI) (CA INDEX NAME)

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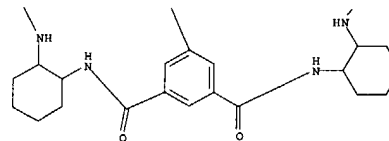
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IT 535933-24-5 535933-27-8 535933-29-0
 535933-32-5 535933-35-8 535933-38-1
 535933-39-2 535933-42-7 535933-45-0
 535933-48-3 535933-50-7 535933-52-9

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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CM 2

CRN 535933-23-4

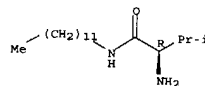
CMP C17 H36 N2 O . C2 H F3 O2

CM 3

CRN 535933-22-3

CMP C17 H36 N2 O

Absolute stereochemistry.



CM 4

CRN 76 05-1

CMP C2 H F3 O2



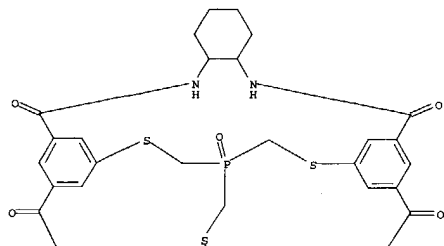
RN 535933-27-8 CAPLUS
 CN Benzenepropanamide, α-amino-N-dodecyl-, (αR)-, mono(trifluoroacetate), compd. with stereoisomer of
 1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a-tetracosahydro-22,43-(epithiomethano)-9,35-(epithiomethanophosphinidenemethanothio)-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-6,12,19,25,32,38-hexone 43-oxide (1:1) (9CI) (CA INDEX NAME)

10/071,377

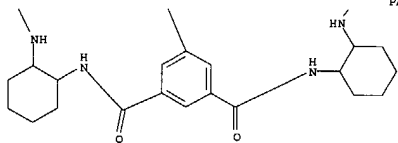
L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

CM 1
CRN 535933-20-1
CMF C45 H51 N6 O7 P S3

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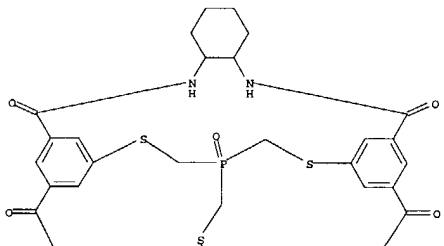
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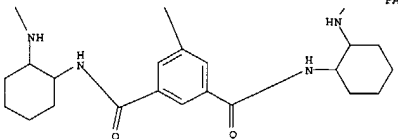
CM 2
CRN 535933-26-7
CMF C21 H36 N2 O . C2 H F3 O2

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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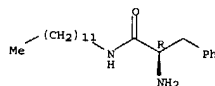
CM 2
CRN 535933-28-9
CMF C15 H32 N2 O2 . C2 H F3 O2
CM 3
CRN 477243-31-5
CMF C15 H32 N2 O2

Absolute stereochemistry.

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

CM 3
CRN 535933-25-6
CMF C21 H36 N2 O

Absolute stereochemistry.



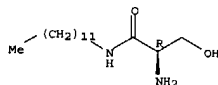
CM 4
CRN 76-05-1
CMF C2 H F3 O2



RN 535933-29-0 CAPLUS
CN Propanamide, 2-amino-N-dodecyl-3-hydroxy-, (2R)-, mono(trifluoroacetate) (salt), compd. with stereoisomer of 1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a-tetracosahydro-22,43-(epithiomethano)-9,35-(epithiomethanophosphinidenemethanothio)-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-6,12,19,25,32,38-hexone 43-oxide (1:1) (9CI) (CA INDEX NAME)

CM 1
CRN 535933-20-1
CMF C45 H51 N6 O7 P S3

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



CM 4
CRN 76-05-1
CMF C2 H F3 O2



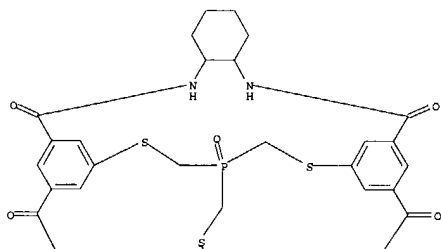
RN 535933-32-5 CAPLUS
CN Butanamide, 2-amino-N-dodecyl-3-hydroxy-, (2R,3S)-, mono(trifluoroacetate) (salt), compd. with stereoisomer of 1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a-tetracosahydro-22,43-(epithiomethano)-9,35-(epithiomethanophosphinidenemethanothio)-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-6,12,19,25,32,38-hexone 43-oxide (1:1) (9CI) (CA INDEX NAME)

CM 1
CRN 535933-20-1
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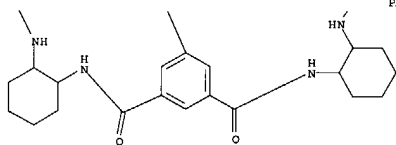
10/071,377

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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CM 2

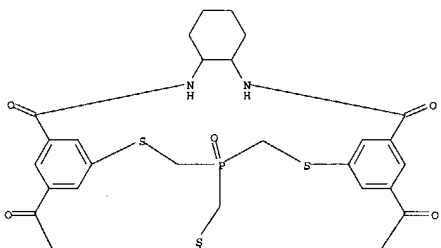
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CMF C16 H34 N2 O2 . C2 H F3 O2

CM 3

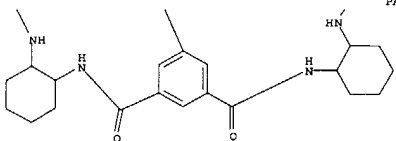
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CMF C16 H34 N2 O2

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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CM 2

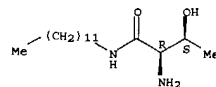
CRN 535933-34-7
CMF C16 H33 N3 O2 . C2 H F3 O2

CM 3

CRN 535933-33-6
CMF C16 H33 N3 O2

Absolute stereochemistry.

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
Absolute stereochemistry.



CM 4

CRN 76-05-1
CMF C2 H F3 O2

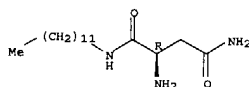


RN 535933-35-8 CAPLUS
CN Butanediamide, 2-amino-N1-dodecyl-, (2R)-, mono(trifluoroacetate), compd. with stereoisomer of
1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a-tetracosahydro-22,43-(epithiomethano)-9,35-(epithiomethanophosphinidenemethanothio)-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-6,12,19,25,32,38-hexone 43-oxide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 535933-20-1
CMF C45 H51 N6 O7 P S3

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



CM 4

CRN 76-05-1
CMF C2 H F3 O2



RN 535933-38-1 CAPLUS
CN Butanediamide, 2-amino-N1-dodecyl-N4-methyl-, (2R)-, mono(trifluoroacetate), compd. with stereoisomer of
1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a-tetracosahydro-22,43-(epithiomethano)-9,35-(epithiomethanophosphinidenemethanothio)-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-6,12,19,25,32,38-hexone 43-oxide (1:1) (9CI) (CA INDEX NAME)

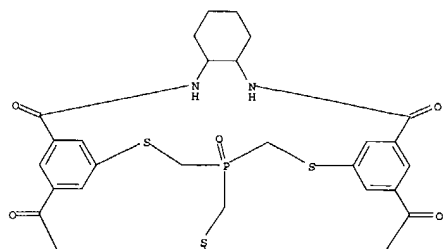
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CRN 535933-20-1
CMF C45 H51 N6 O7 P S3

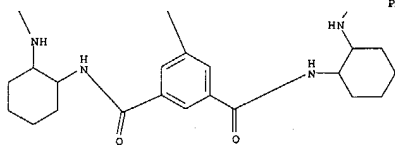
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L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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CM 2

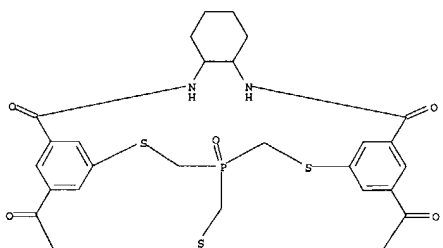
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CMF C17 H35 N3 O2 . C2 H F3 O2

CM 3

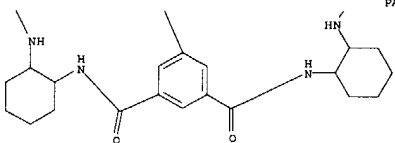
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CMF C17 H35 N3 O2

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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CM 2

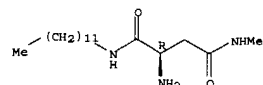
CRN 535933-34-7
CMF C16 H33 N3 O2 . C2 H F3 O2

CM 3

CRN 535933-33-6
CMF C16 H33 N3 O2

Absolute stereochemistry.

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
Absolute stereochemistry.



CM 4

CRN 76-05-1
CMF C2 H F3 O2

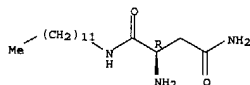


RN 535933-39-2 CAPLUS
CN Butanediamide, 2-amino-N1-dodecyl-, (2R)-, mono(trifluoroacetate), compd. with stereoisomer of
1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a-tetracosahydro-22,43-(epithiomethano)-9,35-(epithiomethanophosphinidenemethanothio)-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-6,12,19,25,32,38-hexone 43-oxide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 535933-21-2
CMF C45 H51 N6 O7 P S3

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



CM 4

CRN 76-05-1
CMF C2 H F3 O2



RN 535933-42-7 CAPLUS
CN Butanoic acid, 3-amino-4-(dodecylamino)-4-oxo-, (3R)-, mono(trifluoroacetate), compd. with stereoisomer of
1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a-tetracosahydro-22,43-(epithiomethano)-9,35-(epithiomethanophosphinidenemethanothio)-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-6,12,19,25,32,38-hexone 43-oxide (1:1) (9CI) (CA INDEX NAME)

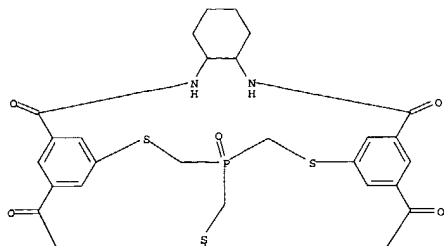
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CRN 535933-20-1
CMF C45 H51 N6 O7 P S3

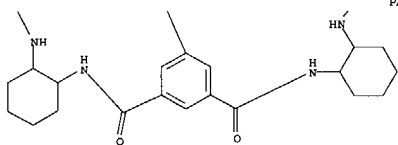
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L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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CM 2

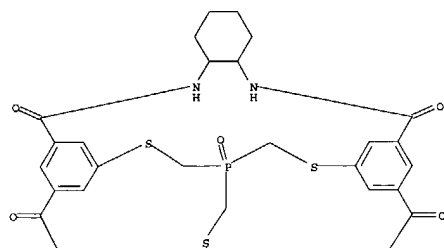
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CMF C16 H32 N2 O3 . C2 H F3 O2

CM 3

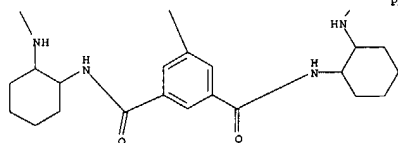
CRN 535933-40-5
CMF C16 H32 N2 O3

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CM 2

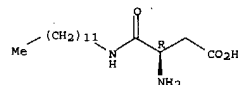
CRN 535933-44-9
CMF C17 H35 N3 O2 . C2 H F3 O2

CM 3

CRN 535933-43-8
CMF C17 H35 N3 O2

Absolute stereochemistry.

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
Absolute stereochemistry.



CM 4

CRN 76-05-1
CMF C2 H F3 O2

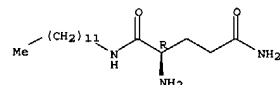


RN 535933-45-0 CAPLUS
CN Pentanediamide, 2-amino-N1-dodecyl-, (2R)-, mono(trifluoroacetate),
compd.
with stereoisomer of
1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,2
9,30,30a,31,39,39a-tetracosahydro-22,43-(epithiomethano)-9,35-
(epithiomethanophosphinidenemethanthio)-11,7:20,24:33,37-trimetheno-7H-
tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-
6,12,19,25,32,38 hexone 43-oxide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 535933-20-1
CMF C45 H51 N6 O7 P S3

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



CM 4

CRN 76-05-1
CMF C2 H F3 O2



RN 535933-48-3 CAPLUS
CN Pentanoic acid, 4-amino-5-(dodecylamino)-5-oxo-, (4R)-,
mono(trifluoroacetate), compd. with stereoisomer of
1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a
tetracosahydro-22,43-(epithiomethano)-9,35-(epithiomethanophosphinidenemet
hanthio)-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]h
exaazacyclotritriacontine-6,12,19,25,32,38-hexone 43-oxide (1:1) (9CI)
(CA INDEX NAME)

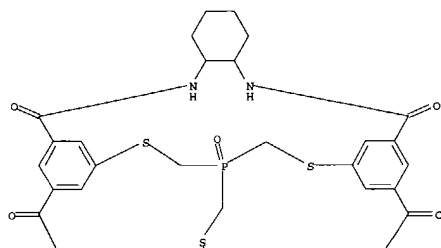
CM 1

CRN 535933-20-1
CMF C45 H51 N6 O7 P S3

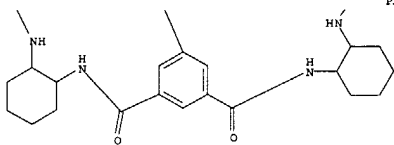
10/071,377

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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CM 2

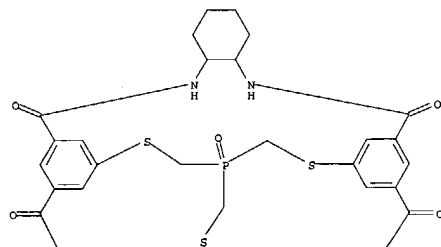
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CMF C17 H34 N2 O3 . C2 H F3 O2

CM 3

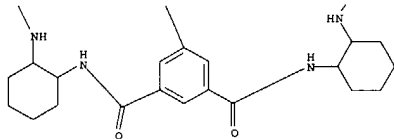
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CMF C17 H34 N2 O3

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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CM 2

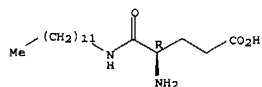
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CMF C17 H36 N2 O . C2 H F3 O2

CM 3

CRN 60654-00-4
CMF C17 H36 N2 O

Absolute stereochemistry.

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
Absolute stereochemistry.



CM 4

CRN 76-05-1
CMF C2 H F3 O2

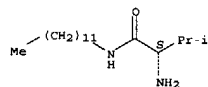


RN 535933-50-7 CAPLUS
CN Butanamide, 2-amino-N-dodecyl-3-methyl-, (2S)-, mono(trifluoroacetate),
compd. with stereoisomer of
1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,
27,28,29,30,30a,31,39,39a-tetracosahydro-22,43-(epithiomethano)-9,35-
(epithiomethanophosphinidenemethanethio)-11,7:20,24:33,37-trimetheno-7H-
tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-
6,12,19,25,32,38-hexone 43-oxide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 535933-20-1
CMF C45 H51 N6 O7 P S3

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



CM 4

CRN 76-05-1
CMF C2 H F3 O2



RN 535933-52-9 CAPLUS
CN Benzenehexanamide, α-amino-N-dodecyl-, (αS)-, mono(trifluoroacetate), compd. with stereoisomer of
1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a-
tetracosahydro-22,43-(epithiomethano)-9,35-(epithiomethanophosphinidenemet
hanthio)-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]h
exaazacyclotritriacontine-6,12,19,25,32,38-hexone 43-oxide (1:1) (9CI)
(CA INDEX NAME)

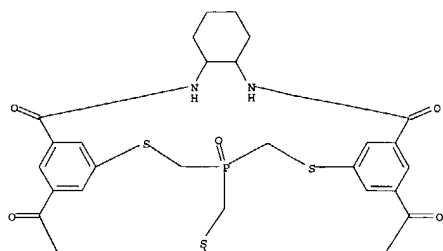
CM 1

CRN 535933-20-1
CMF C45 H51 N6 O7 P S3

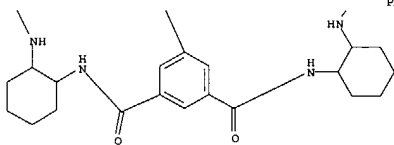
10/071,377

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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CM 2

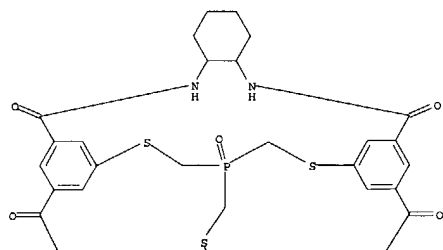
CRN 535933-51-8
CMF C21 H36 N2 O . C2 H F3 O2

CM 3

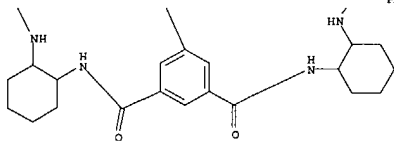
CRN 132139-11-8
CMF C21 H36 N2 O

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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CM 2

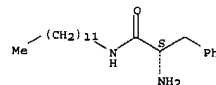
CRN 535933-53-0
CMF C15 H32 N2 O2 . C2 H F3 O2

CM 3

CRN 164030-89-1
CMF C15 H32 N2 O2

Absolute stereochemistry.

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
Absolute stereochemistry.



CM 4

CRN 76-05-1
CMF C2 H F3 O2

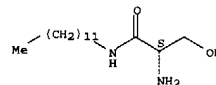


RN 535933-54-1 CAPLUS
CN Propanamide, 2-amino-N-dodecyl-3-hydroxy-, (2S)-, mono(trifluoroacetate) (salt), compd. with stereoisomer of 1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a-tetracosahydro-22,43-(epithiomethano)-9,35-(epithiomethanophosphinidenemethanothio)-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-6,12,19,25,32,38-hexone 43-oxide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 535933-20-1
CMF C45 H51 N6 O7 P S3

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



CM 4

CRN 76-05-1
CMF C2 H F3 O2



RN 535933-56-3 CAPLUS
CN Butanamide, 2-amino-N-dodecyl-3-hydroxy-, (2S,3R)-, mono(trifluoroacetate) (salt), compd. with stereoisomer of 1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a-tetracosahydro-22,43-(epithiomethano)-9,35-(epithiomethanophosphinidenemethanothio)-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-6,12,19,25,32,38-hexone 43-oxide (1:1) (9CI) (CA INDEX NAME)

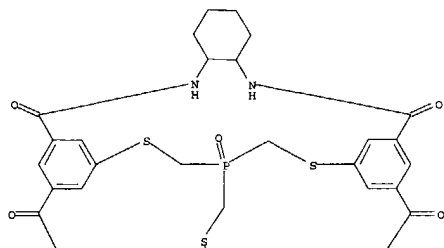
CM 1

CRN 535933-20-1
CMF C45 H51 N6 O7 P S3

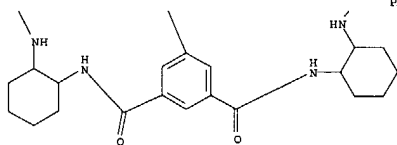
10/071,377

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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CM 2

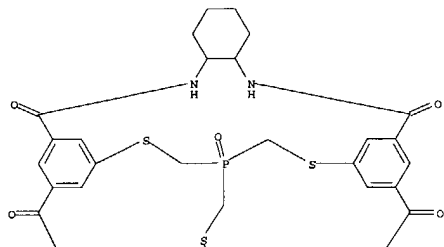
CRN 535933-55-2
CMF C16 H34 N2 O2 . C2 H F3 O2

CM 3

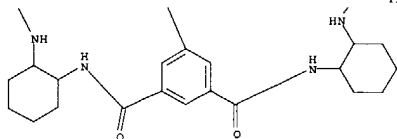
CRN 111133-93-8
CMF C16 H34 N2 O2

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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CM 2

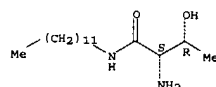
CRN 535933-58-5
CMF C16 H33 N3 O2 . C2 H F3 O2

CM 3

CRN 535933-57-4
CMF C16 H33 N3 O2

Absolute stereochemistry.

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
Absolute stereochemistry.



CM 4

CRN 76-05-1
CMF C2 H F3 O2

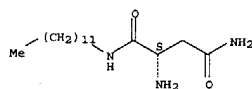


RN 535933-59-6 CAPLUS
CN Butanediamide, 2-amino-N1-dodecyl-, (2S)-, mono(trifluoroacetate), compd. with stereoisomer of
1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,2
9,30,30a,31,39,39a-tetracosahydro-22,43-(epithiomethano)-9,35-
(epithiomethanophosphinidenemethanothio)-11,7:20,24:33,37-trimetheno-7H-
tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-
6,12,19,25,32,38-hexone 43-oxide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 535933-20-1
CMF C45 H51 N6 O7 P S3

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



CM 4

CRN 76-05-1
CMF C2 H F3 O2



RN 535933-62-1 CAPLUS
CN Butanediamide, 2-amino-N1-dodecyl-N4-methyl-, (2S)-, mono(trifluoroacetate), compd. with stereoisomer of
1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a-
tetracosahydro-22,43-(epithiomethano)-9,35-(epithiomethanophosphinidenemet
hanothio)-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]h
exaazacyclotritriacontine-6,12,19,25,32,38-hexone 43-oxide (1:1) (9CI)
(CA INDEX NAME)

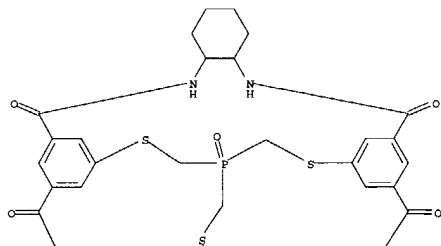
CM 1

CRN 535933-20-1
CMF C45 H51 N6 O7 P S3

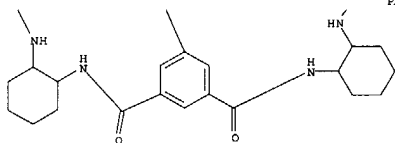
10/071,377

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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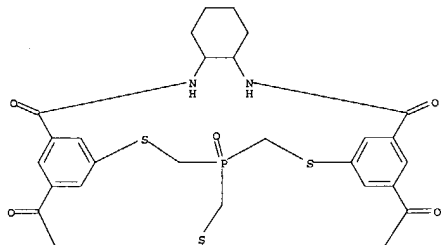
PAGE 2-A



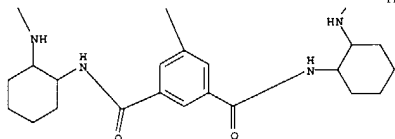
CM 2
CRN 535933-61-0
CMF C17 H35 N3 O2 . C2 H F3 O2
CM 3
CRN 535933-60-9
CMF C17 H35 N3 O2

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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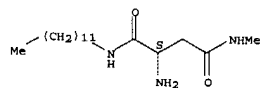
PAGE 2-A



CM 2
CRN 535933-58-5
CMF C16 H33 N3 O2 . C2 H F3 O2
CM 3
CRN 535933-57-4
CMF C16 H33 N3 O2

Absolute stereochemistry.

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
Absolute stereochemistry.



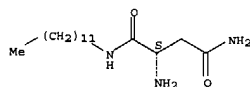
CM 4
CRN 76-05-1
CMF C2 H F3 O2



RN 535933-63-2 CAPLUS
CN Butanediamide, 2-amino-N1-dodecyl-, (2S)-, mono(trifluoroacetate), compd. with stereoisomer of
1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a-tetracosahydro-22,43-(epithiomethano)-9,35-(epithiomethanophosphinidenemethanethio)-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-6,12,19,25,32,38-hexone 43-oxide (1:1) (9CI) (CA INDEX NAME)

CM 1
CRN 535933-21-2
CMF C45 H51 N6 O7 P S3

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



CM 4
CRN 76-05-1
CMF C2 H F3 O2



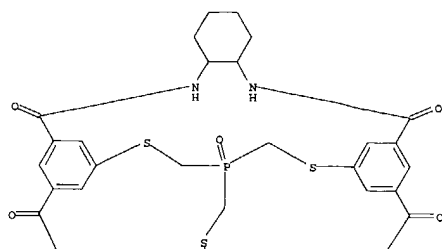
RN 535933-65-4 CAPLUS
CN Butanoic acid, 3-amino-4-(dodecylamino)-4-oxo-, (3S)-, mono(trifluoroacetate), compd. with stereoisomer of
1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a-tetracosahydro-22,43-(epithiomethano)-9,35-(epithiomethanophosphinidenemethanethio)-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-6,12,19,25,32,38-hexone 43-oxide (1:1) (9CI) (CA INDEX NAME)

CM 1
CRN 535933-20-1
CMF C45 H51 N6 O7 P S3

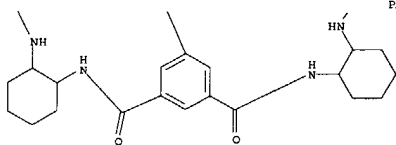
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L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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CM 2

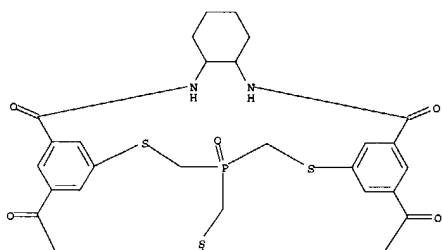
CRN 535933-64-3
CMF C16 H32 N2 O3 . C2 H F3 O2

CM 3

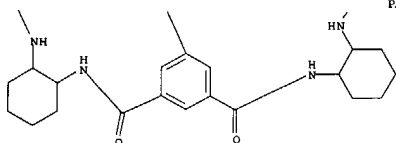
CRN 60654-05-9
CMF C16 H32 N2 O3

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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CM 2

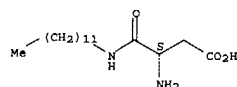
CRN 194231-93-1
CMF C17 H35 N3 O2 . C2 H F3 O2

CM 3

CRN 194231-92-0
CMF C17 H35 N3 O2

Absolute stereochemistry.

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
Absolute stereochemistry.



CM 4

CRN 76-05-1
CMF C2 H F3 O2



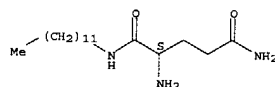
RN 535933-66-5 CAPLUS
CN Pentanediamide, 2-amino-N1-dodecyl-, (2S)-, mono(trifluoroacetate), compd.

with stereoisomer of
1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a-tetracosahydro-22,43-(epithiomethano)-9,35-(epithiomethanophosphinidenemethanethio)-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-6,12,19,25,32,38-hexone 43-oxide (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 535933-20-1
CMF C45 H51 N6 O7 P S3

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



CM 4

CRN 76-05-1
CMF C2 H F3 O2



RN 535933-68-7 CAPLUS
CN Pentanoic acid, 4-amino-5-(dodecylamino)-5-oxo-, (4S)-, mono(trifluoroacetate), compd. with stereoisomer of
1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a-tetracosahydro-22,43-(epithiomethano)-9,35-(epithiomethanophosphinidenemethanethio)-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-6,12,19,25,32,38-hexone 43-oxide (1:1) (9CI) (CA INDEX NAME)

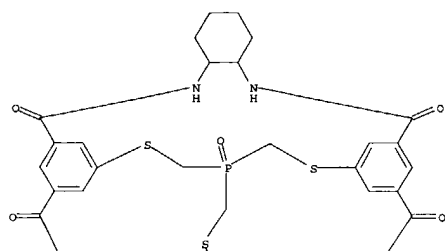
CM 1

CRN 535933-20-1
CMF C45 H51 N6 O7 P S3

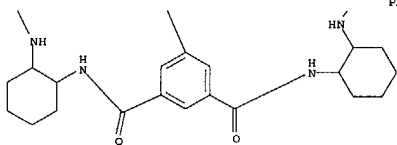
10/071,377

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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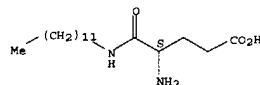


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CM 2
CRN 535933-67-6
CMP C17 H34 N2 O3 . C2 H F3 O2
CM 3
CRN 288098-21-5
CMP C17 H34 N2 O3

L10 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
Absolute stereochemistry.



CM 4
CRN 76-05-1
CMP C2 H F3 O2



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L10 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN

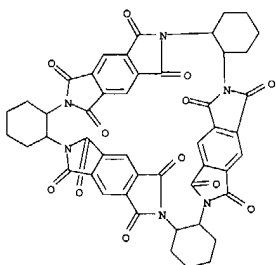
ACCESSION NUMBER: 2002:536946 CAPLUS
DOCUMENT NUMBER: 139:198007
TITLE: Novel chiral pyromellitdiimide (1,2,4,5-benzenetetracarboxydiimide) dimers and trimers: exploring their structure, electronic transitions, and

exciton coupling. [Erratum to document cited in CA137:201807]
AUTHOR(S): Gawronski, Jacek; Brzostowska, Malgorzata; Garonska, Krystyna; Koput, Jacek; Rychlewska, Ruzula; Skowronek, Pawel; Norden, Bengt
CORPORATE SOURCE: Department of Chemistry, A. Mickiewicz University, Poznan, 60780, Pol.
SOURCE: Chemistry-A European Journal (2002), 8(13), 2833
CODEN: CEUJED; ISSN: 0947-6539
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The second sentence in the caption to figure 8 is incorrect. The correct caption should read as follows: "Part of the crystal structure of 5. The benzene solvent mols. lie on the threefold and 63 symmetry axes. Only the major orientation of the disordered benzene mols. lying on the threefold axis is shown. Top: view down the z axis showing three consecutive (001) layers, differentiated by thick, thin, and open lines. Bottom: side view of the (001) layers."

IT 453561-28-9P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (electronic and mol. structure, electronic transitions, and exciton coupling of chiral pyromellitdiimide dimers and trimers (Erratum))
RN 453561-28-9 CAPLUS
CN 12H, 19H, 25H, 32H, 38H-5, 8:10, 13:18, 21:23, 26:31, 34:36, 39-Hexamethano-

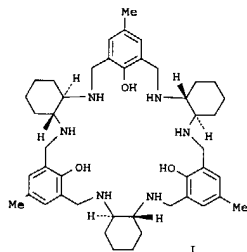
7, 11:20, 24:33, 37-trimetheno-6H-tribenzo[b, m, x] [1, 4, 12, 15, 23, 26]hexaazacyclotriphenylene-6, 12, 19, 25, 32, 38, 40, 42, 43, 45, 46, 48-dodecane, 1, 2, 3, 4, 4a, 13a, 14, 15, 16, 17, 17a, 26a, 27, 28, 29, 30, 30a, 39a-octadecahydro-, (4aR, 13aR, 17aR, 26aR, 30aR, 39aR) - (9CI) (CA INDEX NAME)



L10 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

10/071,377

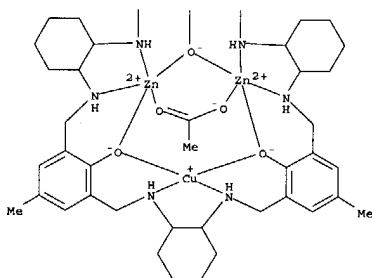
L10 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2002:514982 CAPLUS
 DOCUMENT NUMBER: 137:209937
 TITLE: Synthesis, Structure, and DNA Cleavage Activity of
 New Trinuclear Zn3 and Zn2Cu Complexes of a Chiral
 Macrocyclic: Structural Correlation with the Active
 Center of P1 Nuclease
 AUTHOR(S): Korupolu, Srinivas R.; Mangayarkarasi, Nagarathinam;
 Zacharias, Panthapally S.; Mizuthani, Jun; Nishihara,
 Hiroshi
 CORPORATE SOURCE: School of Chemistry, University of Hyderabad,
 Hyderabad, 500 046, India
 SOURCE: Inorganic Chemistry (2002), 41(16), 4099-4101
 CODEN: INOCAL; ISSN: 0020-1669
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 137:209937
 GI



AB New homo trinuclear Zn(II) complexes [Zn3L1(μ-OAc)](ClO4)·2·3CHCl3·H2O, 1, and [Zn3L1(μ-OAc)]·ClO4·PF6·5MeOH·H2O, 2, and hetero trinuclear complex [Zn2CuL1(μ-OAc)](ClO4)·2·3CHCl3·H2O, 3, of optically active hexaaza triphenolic macrocycle 1 (H3L1) were synthesized and crystallog. characterized. The [Zn3L1(μ-OAc)]+ structure of 1 and 2 closely resembles the trinuclear Zn(II) active site of P1 nuclease. The distorted tetrahedral geometry of Zn3 was successfully reproduced at Cu1 in complex 3. The complexes 2 and 3 cleave CT DNA at 37 and 50°.

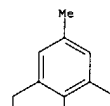
L10 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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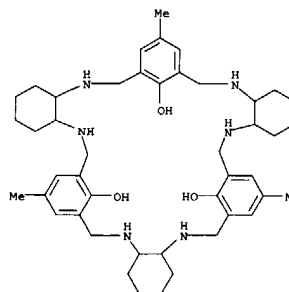
IT 210156-93-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (for preparation of trinuclear zinc and heterotrinuclear copper zinc
 complexes of chiral macrocycle as structural model of active site in
 P1 nuclease)
 RN 210156-93-7 CAPLUS
 CN 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacycl
 otritriacontine-40,41,42-triol,
 1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a,1
 8,19,25,26,26a,27,28,29,30,30a,31,32,38,39,39a-triacontahydro-9,22,35-
 trimethyl-, (4aR,13aR,17aR,26aR,30aR,39aR)- (9CI) (CA INDEX NAME)

L10 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 IT 453509-39-2
 RL: FMU (Formation, unclassified); PRP (Properties); FORM (Formation,
 nonpreparative)
 (elec. potential of couple containing)
 RN 453509-39-2 CAPLUS
 CN Copper(1+), [[μ-(acetato-κO:κO')]dizinc][μ3-
 [(4aR,5S,13S,13aR,17aR,18S,26S,26aR,30aR,31S,39S,39aR)-
 1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a,18,19,25,26,26a,27,28,29,30,30a,3
 1,32,38,39,39a-triacontahydro-9,22,35 trimethyl-11,7:20,24:33,37-
 trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-
 40,41,42-triolato(3-)-κN5,κN39,κO40,κO42:κN1
 3,κN18,κO41,κO42:κN26,κN31,κO40,κappa
 .O41]]tri-, stereoisomer (9CI) (CA INDEX NAME)



PAGE 1-A

L10 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



IT 453509-35-8P 453530-11-9P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation and crystal structure as model of active site in P1
 nuclease)
 RN 453509-35-8 CAPLUS
 CN Zinc(2+), [[μ-(acetato-κO:κO')] [μ3-
 [(4aR,5S,13S,13aR,17aR,18S,26S,26aR,30aR,31S,39S,39aR)-
 1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a,18,19,25,26,26a,27,28,29,30,30a,3
 1,32,38,39,39a-triacontahydro-9,22,35 trimethyl-11,7:20,24:33,37-
 trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-
 40,41,42-triolato(3-)-κN5,κN39,κO40,κO42:κN1
 3,κN18,κO41,κO42:κN26,κN31,κO40,κappa
 .O41]]tri-, stereoisomer, diperchlorate, compd. with trichloromethane
 (1:3), monohydrate (9CI) (CA INDEX NAME)

CM 1
 CRN 67-66-3
 CMF C H Cl3

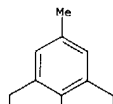


CM 2
 CRN 453509-34-7
 CMF C47 H66 N6 O5 Zn3 . 2 Cl O4
 CM 3

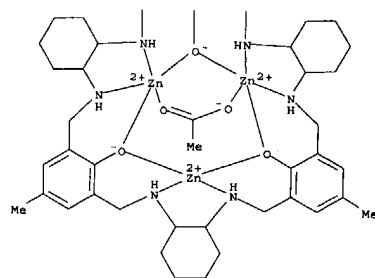
10/071,377

L10 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 CRN 453509-33-6
 CMF C47 H66 N6 O5 Zn3
 CCI CCS

PAGE 1-A



L10 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 PAGE 2-A



CM 4
 CRN 14797-73-0
 CMF Cl O4

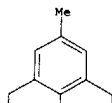


RN 453538-11-9 CAPLUS
 CN Zinc(2+), [μ-(acetato-κO:κO')] [μ3-
 [(4aR,5S,13S,13aR,17aR,18S,26S,26aR,30aR,31S,39S,39aR)-
 1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a,18,19,25,26,26a,27,28,29,30,30a,3
 1,32,38,39,39a-triacontahydro-9,22,35-trimethyl-11,7:20,24:33,37-
 trimetheno-7H-tribenzo[h,m,x][1,4,12,15,23,26]hexaazacyclotriactine-
 40,41,42-triolato(3-)-κN5,κN39,κO40,κO42:κN1
 3,κN18,κO41,κO42:κN26,κN31,κO40,κappa
 .O41]]tri-, stereoisomer, hexafluorophosphate(1-) perchlorate, compd.
 with
 methanol (1:5), monohydrate (9Cl) (CA INDEX NAME)
 CM 1
 CRN 67-56-1
 CMF C H4 O

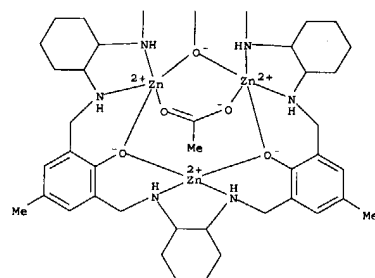
L10 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 H3C-OH

CM 2
 CRN 453538-10-8
 CMF C47 H66 N6 O5 Zn3 . Cl O4 . F6 P
 CM 3
 CRN 453509-33-6
 CMF C47 H66 N6 O5 Zn3
 CCI CCS

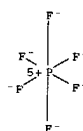
PAGE 1-A



L10 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 PAGE 2-A



CM 4
 CRN 16919-18-9
 CMF F6 P
 CCI CCS



CM 5
 CRN 14797-73-0
 CMF Cl O4



IT 453509-38-1P
 RL: BSU (Biological study, unclassified); CPS (Chemical process); PEP
 (Physical, engineering or chemical process); PRP (Properties); SPN

10/071,377

L10 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
(Synthetic preparation); BIOL (Biological study); PREP (Preparation);

PROC

(Process)

(prepn., crystal structure as model of active site in P1 nuclease,
electrochem. redox, and CT DNA cleavage activity of)

RN 453509-38-1 CAPLUS

CN Copper(2+), [[μ-(acetato-κO;κO')]]dizinc] [μ3-
[(4aR,5S,13S,13aR,17aR,18S,26S,26aR,30aR,31S,39S,39aR)-

1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a,18,19,25,26,26a,27,28,29,30,30a,3
1,32,38,39,39a-triacontahydro-9,22,35-trimethyl-11,7:20,24:33,37-
trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotriactine-
40,41,42-triolato(3-)-κN5,κN39,κO40,κO42:κN1
3,κN18,κO41,κO42:κN26,κN31,κO40,κO42:κN1
[O41]]tri-, stereoisomer, diperchlorate, compd. with trichloromethane (1:3),
monohydrate (9CI) (CA INDEX NAME)

CM 1

CRN 67-66-3
CMF C H Cl3



CM 2

CRN 453509-37-0
CMF C47 H66 Cu N6 O5 Zn2 . 2 Cl O4

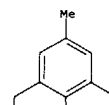
CM 3

CRN 453509-36-9
CMF C47 H66 Cu N6 O5 Zn2
CCI CCS

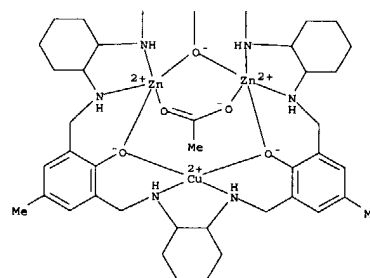
L10 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN

(Continued)

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PAGE 2-A



CM 4

L10 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

CRN 14797-73-0
CMF Cl O4



IT 453538-12-0P

RI: BSU (Biological study, unclassified); PRP (Properties); SPN

(Synthetic

preparation); BIOL (Biological study); PREP (Preparation)

(preparation, mol. structural, and CT DNA cleavage activity of)

RN 453538-12-0 CAPLUS

CN Zinc(2+), [[μ-(acetato-κO;κO')]] [μ3-
[(4aR,5S,13S,13aR,17aR,18S,26S,26aR,30aR,31S,39S,39aR)-

1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a,18,19,25,26,26a,27,28,29,30,30a,3
1,32,38,39,39a-triacontahydro-9,22,35-trimethyl-11,7:20,24:33,37-
trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotriactine-
40,41,42-triolato(3-)-κN5,κN39,κO40,κO42:κN1
3,κN18,κO41,κO42:κN26,κN31,κO40,κO42:κN1
[O41]]tri-, stereoisomer, diperchlorate, monohydrate (9CI) (CA INDEX
NAME)

CM 1

CRN 453509-34-7
CMF C47 H66 N6 O5 Zn3 . 2 Cl O4

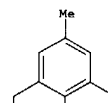
CM 2

CRN 453509-33-6
CMF C47 H66 N6 O5 Zn3
CCI CCS

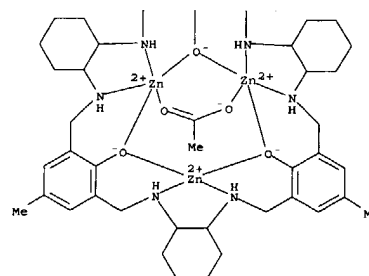
L10 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN

(Continued)

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CM 3

CRN 14797-73-0
CMF Cl O4



PAGE 1-A

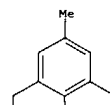
IT 453538-13-1P
 RL: BSU (Biological study, unclassified); PRP (Properties); SPN
 (Synthetic
 preparation); BIOL (Biological study); PREP (Preparation)
 (preparation, mol. structure as model of active site in Pi nuclease,
 and CT
 DNA cleavage activity of)
 RN 453538-13-1 CAPLUS
 CN $Zinc(2+)$, [μ (acetato- κO : $\kappa O'$)] [μ_3 -
 (4aR,5S,13S,13aR,17aR,18S,26S,26aR,30aR,31S,39S,39aR)-
 1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a,18,19,25,26,26a,27,28,29,30,30a,3
 1,32,38,39,49a-triacontahydro-9,22,35 trimethyl-11,7,20,24,33,37-
 trimetheno-7H-triacont[b,m,x] [1,4,12,15,23,26]hexaazacyclotriatriacontine-
 40,1,4,12,15,23,26]hexaazacyclotriatriacontine-
 3,18N18, $\kappa O41$, $\kappa O42$ $\kappa N36$, $\kappa N31$, $\kappa O40$, $\kappa a40$
 O41]]tri-, stereoisomer, hexafluorophosphate(1-) perchlorate
 monohydrate
 (9CI) (CA INDEX NAME)

CM 1

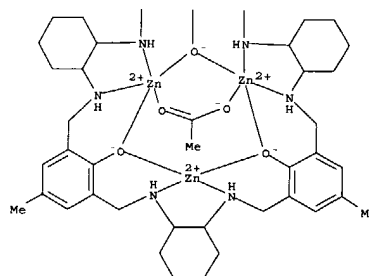
CRN 453538-10-8
CMF C47 H66 N6 O5 Zn3 . Cl O4 . F6 P

CM 2

CRN 453509-33-6
CMF C47 H66 N6 O5 Zn3
CCI CCS



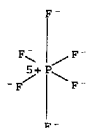
PAGE 2-A



CM 3

L10 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

CRN 16919-18-9
CMF F6 P
CCI CCS



CM 4

CRN 14797-73-0
CMF C1 04



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

ANSWER 8 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002.451322 CAPLUS
DOCUMENT NUMBER: 137:201807
TITLE: Novel chiral pyromellitidiimide (1,2,4,5-
benzenetetracarboxyidiimide) dimers and trimers:
exploring their structure, electronic transitions.

and	exploring their structure, electronic transitions,
AUTHOR(S):	exciton coupling Gawronski, Jacek; Brzostowska, Malgorzata; Gawronska, Krystyna; Koput, Jacek; Rychlewska, Urszula; Skowronek, Pawel; Norden, Bengt
CORPORATE SOURCE:	Department of Chemistry, A. Mickiewicz University, Poznan, 60780, Pol.
SOURCE:	Chemistry--A European Journal (2002), 8(11), 2484-2494
PUBLISHER:	CODEN: CEUJED; ISSN: 0947-6539
DOCUMENT TYPE:	Wiley-VCH Verlag GmbH
LANGUAGE:	Journal English

AB The chiral butylthiolym, acyclic and cyclic pyromellitimide dimers and trimers have been obtained and characterized for the first time. The pyromellitimide chromophores in these mols. are linked by a rigid diequatorially 1,2-disubstituted cyclohexane skeleton. The structures of the compts. have been determined in detail by mol. modeling and, in the case of cyclic dimer 4 and trimer 5, by means of X-ray diffraction anal. The electronically excited states of the pyromellitimide chromophore (1a) have been studied in these and other model compts. by means of linear dichroism (LD), magnetic CD (MCD), and CD (CD) spectroscopy. CD spectra of the rigid cyclic trimer 5 have provided the most detailed information on the excited states of the pyromellitimide chromophore. The low-energy tail (340-360 nm) of the absorption envelope can be assigned to out-of-plane polarized $n \rightarrow \pi^*$ transitions (I, II). The higher energy bands are due to contributions from up to six $\pi \rightarrow \pi^*$ transitions, which are being polarized either along the long (IV-VI, VIII) or short axis (III, VII). The results of ab initio CIS/c-PVDZ and semiempirical INDO/S-CI calcs. have been compared with the exptl. data. CD Cotton effects in the region 200-260 nm, which result from exciton interactions between elec. dipole allowed transitions of two pyromellitimide chromophores in 5, provide reliable and useful information concerning the conformation and absolute configuration of these mols., which may be extrapolated to other oligoimide systems.

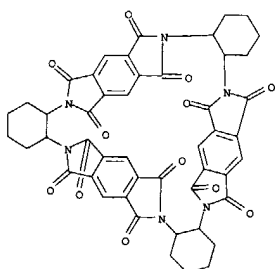
may be extrapolated to other oligoimide systems.

IT 453561-28-39
RL: PREP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(electronic and mol. structure, electronic transitions, and exciton
coupling of chiral pyromellitimide dimers and trimers)

RN 453561-28-9 CAPLUS
CN 12H, 19H, 25H, 32H, 38H-5, 8; 10, 13, 18, 21; 23, 26, 31, 34; 36, 39-Hexamethano-

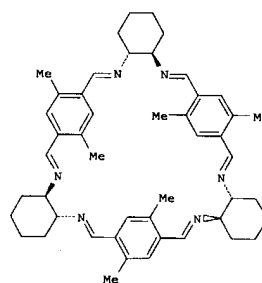
7, 11: 20, 24: 33, 37-trimetheno-6H-tribenzo[b, m, x] [1, 4, 12, 15, 23, 26] hexaazacycl
otritriacontine-6, 12, 19, 25, 32, 38, 40, 42, 43, 45, 46, 48-dodecone,
1, 2, 3, 4, 4a, 13a, 14, 15, 16, 17, 17a, 26a, 27, 28, 29, 30, 30a, 39a-octadecahydro-,
(4aR, 13aR, 17aR, 26aR, 30aR, 39aR)- (9C) (CA INDEX NAME)

L10 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



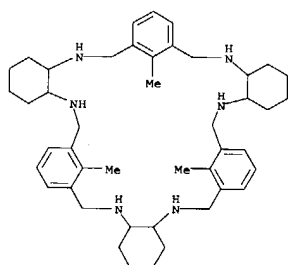
REFERENCE COUNT: 61 THERE ARE 61 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L10 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2002:303832 CAPLUS
 DOCUMENT NUMBER: 137:232631
 TITLE: Synthesis of novel chiral non-racemic substituted trianglimine and trianglimine macrocycles
 AUTHOR(S): Kuhnert, Nikolai; Lopez Periazo, Ana M.
 CORPORATE SOURCE: Department of Chemistry, Synthetic Biological and Organic Chemistry Laboratory, The University of Surrey, Guildford, GU2 7XH, UK
 SOURCE: Tetrahedron Letters (2002), 43 (18), 3329-3332
 CODEN: TETLEY; ISSN: 0040-4039
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 137:232631
 GI

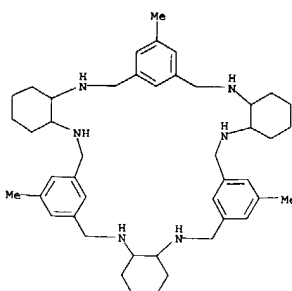


AB Novel 27- and 30-membered macrocycles of the trianglimine type, e.g. I, were prepared via [3+3] cyclocondensation between an enantiomerically pure 1,2-diamine and aromatic dicarboxaldehydes. Reduction of trianglimines with NaBH₄ gave the corresponding reduced analogs, trianglimines, in 75-94% yields.
 IT 459166-69-9P 459166-70-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of chiral trianglimine macrocycles via reduction of trianglimines)
 RN 459166-69-9 CAPLUS
 CN
 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x] [1,4,12,15,23,26]hexaazacycl

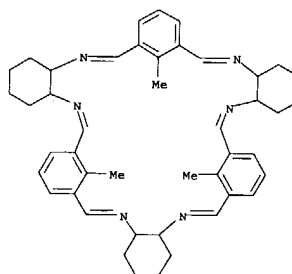
L10 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 otritriacontine,
 1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a,18,19,25,26,26a,
 27,28,29,30,30a,31,32,38,39,39a-triacontahydro-40,41,42-trimethyl-,
 (4aR,13aR,17aR,26aR,30aR,39aR) - (9CI) (CA INDEX NAME)



RN 459166-70-2 CAPLUS
 CN
 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x] [1,4,12,15,23,26]hexaazacycl
 otritriacontine,
 1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a,18,19,25,26,26a,
 27,28,29,30,30a,31,32,38,39,39a-triacontahydro-9,22,35-trimethyl-,
 (4aR,13aR,17aR,26aR,30aR,39aR) - (9CI) (CA INDEX NAME)



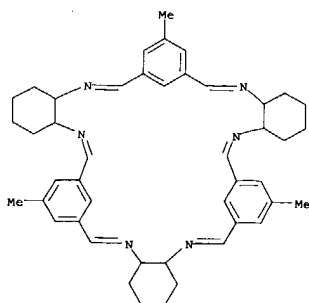
L10 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 IT 459166-66-6P 459166-67-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of chiral trianglimine macrocycles via [3+3]
 cyclocondensation
 of diamines and aromatic dicarboxaldehydes)
 RN 459166-66-6 CAPLUS
 CN
 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x] [1,4,12,15,23,26]hexaazacycl
 otritriacontine, 1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,29,30,30a,39a-
 octadecahydro-40,41,42-trimethyl-,
 (4aR,5E,12E,13aR,17aR,18E,25E,26aR,30aR,
 31E,38E,39aR) - (9CI) (CA INDEX NAME)



RN 459166-67-7 CAPLUS
 CN
 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x] [1,4,12,15,23,26]hexaazacycl
 otritriacontine, 1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,29,30,30a,39a-
 octadecahydro-9,22,35-trimethyl-,
 (4aR,5E,12E,13aR,17aR,18E,25E,26aR,30aR,
 31E,38E,39aR) - (9CI) (CA INDEX NAME)

10/071,377

L10 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L10 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:570803 CAPLUS
DOCUMENT NUMBER: 133:321868
TITLE: Designing Large Triangular Chiral Macrocycles: Efficient [3 + 3] Diamine-Dialdehyde Condensations Based on Conformational Bias
AUTHOR(S): Gawronski, J.; Kolbon, H.; Kwit, M.; Katrusiak, A.
CORPORATE SOURCE: Department of Chemistry, A. Mickiewicz University, Poznan, Pol.
SOURCE: Journal of Organic Chemistry (2000), 65(18), 5768-5773

CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 133:321868
AB Triangular 30- and 27-membered hexaiminomacrocycles of D₃ and C₃ symmetry,

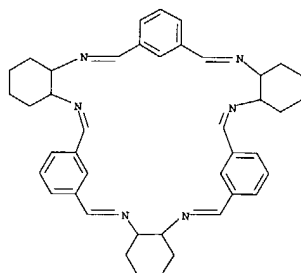
resp., are readily obtained by [3+3] cyclocondensation of (R,R)-1,2-diaminocyclohexane with terephthalaldehyde and isophthalaldehyde. The course of the reaction, leading to macrocyclization, is governed by conformational constraints imposed on the

structural components of the intermediate products, as shown by mol. modeling. X-ray anal. of the inclusion compound of AcOEt with the hexamine obtained from terephthalaldehyde revealed that the macrocycle symmetry significantly departs from ideal D₃ symmetry due to crystal environment. Cyclic hexamines were prepared by sodium borohydride reduction of the hexamines.

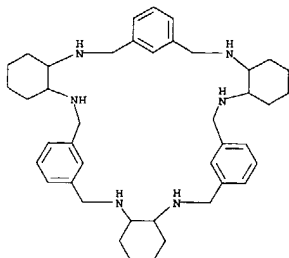
IT 302792-01-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
[preparation of triangular hexamines from cyclohexanediamine and benzenedicarboxaldehydes]

RN 302792-01-4 CAPLUS
CN 11,7:20,24:33,37-Trimethano-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine, 1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,29,30,30a,39a-octadecahydro-, (4aR,5E,12E,13aR,17aR,18E,25E,26aR,30aR,31E,38E,39aR)-(9CI) (CA INDEX NAME)

L10 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

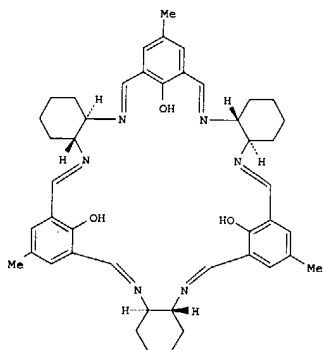


IT 302792-03-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
[preparation of triangular hexamines from cyclohexanediamine and benzenedicarboxaldehydes]
RN 302792-03-6 CAPLUS
CN 11,7:20,24:33,37-Trimethano-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine, 1,2,3,4,4a,13a,14,15,16,17,17a,18,19,25,26,26a,27,28,29,30,38,31,32,38,39,39a-triacontahydro-, (4aR,13aR,17aR,26aR,30aR,39aR)-(9CI) (CA INDEX NAME)



REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L10 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2000:541983 CAPLUS
 DOCUMENT NUMBER: 133:316764
 TITLE: Formation of dinuclear macrocyclic and mononuclear acyclic complexes of a new trinucleating hexaaza triphenolic Schiff base macrocycle: structure and NLO properties
 AUTHOR(S): Korupolu, Srinivas R.; Mangayarkarasi, Nagarathinam; Ameruniha, Sardar; Valente, Edward J.; Zacharias, Panthappally S.
 CORPORATE SOURCE: School of Chemistry, University of Hyderabad, Hyderabad, 500 046, India
 SOURCE: Dalton (2000), (16), 2845-2852
 CODEN: DALTFG
 PUBLISHER: Royal Society of Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



I

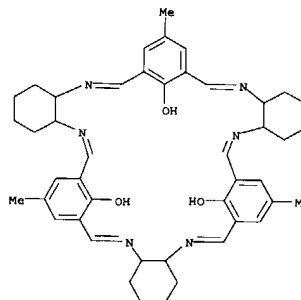
AB Reaction of a new chiral and optically active trinucleating 3 + 3 condensed hexaaza triphenolic Schiff base macrocycle H3L1 I with transition metal ions (Zn, Cu, Ni, Co, Fe and Mn) in 1:3 molar ratio in MeOH under reflux conditions resulted in complexes. Anal. data reveal the formation of 2 + 2 condensed dinuclear macrocyclic Schiff base complexes.

L10 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2000:411885 CAPLUS
 DOCUMENT NUMBER: 133:193109
 TITLE: Heterocalixarenes. Part 2. Calix[m]uracil[n]benzimidazol-2(1H)-one arenes: synthesis and binding characteristics
 AUTHOR(S): Kumar, Subodh; Paul, Dharam; Singh, Harjit
 CORPORATE SOURCE: Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India
 SOURCE: Journal of Inclusion Phenomena and Macrocyclic Chemistry (2000), 37(1-4), 371-382
 CODEN: JIJCFS
 PUBLISHER: Kluwer Academic Publishers
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The reactions of uracil/benzimidazol-2(1H)-one with 1,3-bis(bromomethyl)benzene provide resp. 1,3-bis[(3-bromomethyl)benzene]methyluracil/benzimidazol-2(1H)-one which on subsequent cyclization with 1,3-bis(uracil-1-yl)benzimidazol-2(1H)-one-1-ylmethylbenzene deriva. provide resp. calix[m]uracil[n]benzimidazol-2(1H)-one[3]arenes [m = 3, n = 0 (9); m = 2, n = 1 (10); m = 1, n = 2 (11) and m = 0, n = 3 (12)]. The heterocalixarenes 9-12, both in liquid-liquid and solid-liquid extraction expts., selectively extract ammonium picrates over the similarly sized K⁺ picrate. The selectivity is much more pronounced in the case of solid-liquid extns. Both in L-L and S-L extns., 10 exhibits the highest order of t-BuNH₃⁺/K⁺ selectivity.
 IT 289487-30-5P
 RL: PEP (Physical, engineering or chemical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
 (preparation and liquid-liquid extraction of ammonium picrates and potassium picrate)
 RN 289487-30-5 CAPLUS
 CN 12H,19H,25H,32H,38H 5,39:13,18:26,31-Trimetheno-7,11:20,24:33,37-trimetheno-6H-tribenzo[b,m,x] [1,4,12,15,23,26]hexaazacyclotriatriacontine-40,42,44-trione (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
 REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS

FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

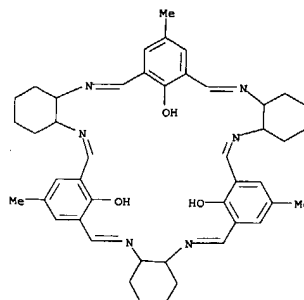
L10 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 instead of the expected trinuclear macrocyclic complexes. X-ray crystallog. studies on three of these complexes established their dinuclearity. However, reaction of I with metal ions (Zn, Cu, Fe and Mn) in 1:3 molar ratio in MeOH at room temp. for 2 h resulted in 1-side condensed mononuclear acyclic complexes. This is confirmed by the crystal structure of the Mn complex. Second-order nonlinear properties of I and its ring-cleaved metal complex deriva. are discussed.
 IT 210156-92-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and cleavage upon complexation with metals to give dinuclear macrocyclic and mononuclear acyclic complex deriva.)
 RN 210156-92-6 CAPLUS
 CN 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x] [1,4,12,15,23,26]hexaazacyclotriatriacontine-40,41,42-triol, 1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,2 9,30,30a,39a-octadecahydro-9,22,35-trimethyl-, (4aR,5E,12E,13aR,17aR,18E,25E,26aR,30aR,31E,39aR) - (9CI) (CA INDEX NAME)



REFERENCE COUNT: 97 THERE ARE 97 CITED REFERENCES AVAILABLE FOR THIS

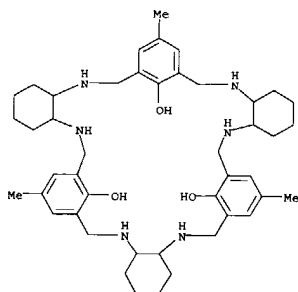
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L10 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1998:362993 CAPLUS
 DOCUMENT NUMBER: 129:122650
 TITLE: New optically active hexaaza triphenolic macrocycles: synthesis, molecular structure and crystal packing features
 AUTHOR(S): Korupolu, Srinivas R.; Zacharias, Panthappally S.
 CORPORATE SOURCE: School of Chemistry, University of Hyderabad, Hyderabad, India
 SOURCE: Chemical Communications (Cambridge) (1998), (12), 1267-1268
 CODEN: CHCOFS; ISSN: 1359-7345
 PUBLISHER: Royal Society of Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB A [3 + 3]-condensed optically active hexaaza triphenolic macrocycle is prepared from 2,6-diformyl-4-methylphenol and trans-(R,R)-1,2-cyclohexanediamine, and the reduced analog is prepared by treatment of the product with NaBH₄. The mol. and close packing structures of the reduced macrocycle are discussed.
 IT 210156-92-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reduction of)
 RN 210156-92-6 CAPLUS
 CN 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x] [1,4,12,15,23,26]hexaazacyclotriatriacontine-40,41,42-triol, 1,2,3,4,4a,13a,14,15,16,17,17a,26a,27,28,2 9,30,30a,39a-octadecahydro-9,22,35-trimethyl-, (4aR,5E,12E,13aR,17aR,18E,25E,26aR,30aR,31E,39aR) - (9CI) (CA INDEX NAME)



IT 210156-93-7P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation and x ray anal. of)

L10 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 RN 210156-93-7 CAPLUS
 CN
 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacycl
 otritriacontine-40,41,42-triol,
 1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a,1
 8,19,25,26,26a,27,28,29,30,30a,31,32,38,39,39a-triacontahydro-9,22,35-
 trimethyl-, (4aR,13aR,17aR,26aR,30aR,39aR)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR
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 FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

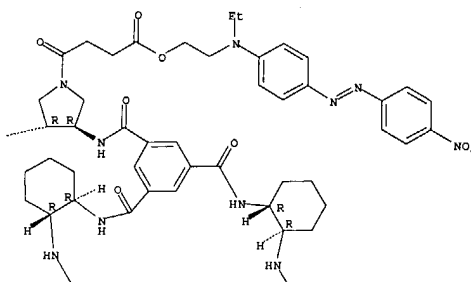
L10 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1996:729924 CAPLUS
 DOCUMENT NUMBER: 126:89755
 TITLE: Macrocyclic oligomers of isophthalic acid and trans-1,2-diaminocyclohexane - building blocks for synthetic peptide receptors
 AUTHOR(S): Pan, Zhengying; Still, W. Clark
 CORPORATE SOURCE: Dep. Chemistry, Columbia Univ., New York, NY, 10027, USA
 SOURCE: Tetrahedron Letters (1996), 37(48), 8699-8702
 PUBLISHER: Elsevier
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB New macrocyclic oligomers of isophthalic acid and trans-1,2-diaminocyclohexane are readily prepared and useful in the synthesis of new, sequence-selective receptors for peptides. Such receptors have a simple, two armed structural motif and the peptide sequences they bind vary with the ring size of the macrocyclic arms.
 IT 185683-72-1P
 RL: BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation);
 PROC (Process)
 (macrocyclic oligomers of isophthalic acid and diaminocyclohexane as building blocks for synthetic peptide receptors)
 RN 185683-72-1 CAPLUS
 CN 1-Pyrrolidinebutanoic acid, γ-oxo-3,4-bis[[[(1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a,18,19,25,26,26a,27,28,29,30,30a,31,32,38,39,39a-triacontahydro-6,12,19,25,32,38-hexaoxo-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontin-9-yl)carbonyl]amino]-, 2-[ethyl[4-[(4-nitrophenyl)azo]phenyl]amino]ethyl ester,
 [4aR-[4aR*,9[3R*,4R*(4aR*,13aR*,17aR*,26aR*,30aR*,39aR*)]]],13aR*,17aR*,26aR*,30aR*,39aR*)]]- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.
 Double bond geometry unknown.

L10 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A

L10 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 2-B

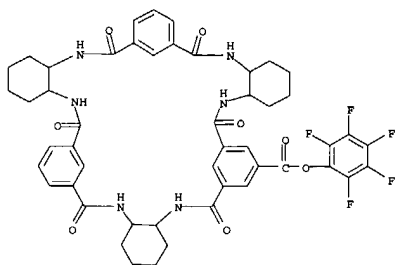


PAGE 3-B

IT 185683-79-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (macrocyclic oligomers of isophthalic acid and diaminocyclohexane as building blocks for synthetic peptide receptors)
 RN 185683-79-8 CAPLUS
 CN
 11,7:20,24:33,37-Trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacycl otritriacontine-9-carboxylic acid,
 1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a,18,19,25,26,26a,27,28,29,30,30a,31,32,38,39,39a-triacontahydro-6,12,19,25,32,38-hexaoxo-, pentafluorophenyl ester, [4aR-(4aR*,13aR*,17aR*,26aR*,30aR*,39aR*)]]- (9CI) (CA INDEX NAME)

10/071,377

L10 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

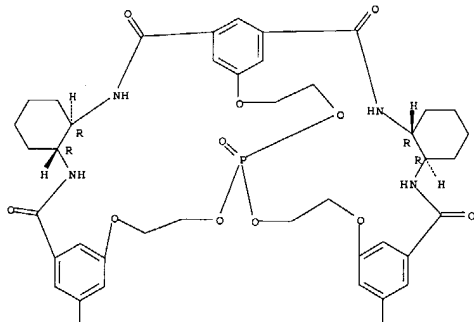
ANSWER 15 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 SESSION NUMBER: 1996:665528 CAPLUS
 DOCUMENT NUMBER: 125:328906
 TITLE: Synthesis of a bowl-shaped, C3 symmetric receptor with a phosphate functionality at the cavity bottom
 AUTHOR(S): Lee, Kwan Hee; Hong, Jong-In
 CORPORATE SOURCE: Dep. of Chemistry, Seoul National Univ., Seoul, 151-742, S. Korea
 SOURCE: Bulletin of the Korean Chemical Society (1996), 17(10), 971-973
 CODEN: BKCSDE; ISSN: 0253-2964
 PUBLISHER: Korean Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

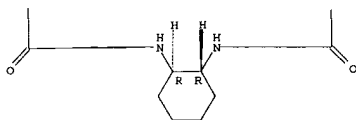
AB The bowl-shaped C3 sym. compound I was prepared in 5 steps starting from P(O)(OCH₂CH₂Cl)₃ and 5-MOC₆H₃(CO₂Me)₂-1,3.
 IT 183316-02-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (synthesis of a bowl-shaped C3 sym. receptor with a phosphate functionality at the cavity bottom)
 RN 183316-02-1 CAPLUS
 CN 22,45-(Epoxyethoxy)-9,35-(epoxyethoxyphosphinidenoxymethoxy)-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-6,12,19,25,32,38-hexone, 1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a-tetracosahydro-, 45-oxide, [4aR-(4aR*,13aR*,17aR*,26aR*,30aR*,39aR*)]- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

L10 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



PAGE 2-A



ANSWER 16 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 SESSION NUMBER: 1995:994173 CAPLUS
 DOCUMENT NUMBER: 124:87801
 TITLE: Preparation of enantioselective receptors for amino acid derivatives and other compounds.
 INVENTOR(S): Still, W. Clark; Simon, Julian A.; Erickson, Shawn D.;
 Yoon, Seung Soo; Borchardt, Allen
 PATENT ASSIGNEE(S): Trustees of Columbia University in the City of New York, USA
 SOURCE: PCT Int. Appl., 216 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9520590	A1	19950803	WO 1995-US948	19950127
W: AU, CA, JP				
RM: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5599926	A	19970204	US 1994-188146	19940127
AU 9516894	A1	19950815	AU 1995-16894	19950127
PRIORITY APPLN. INFO.:			US 1994-188146	19940127
			US 1994-357663	19941216
			US 1992-901401	19920619
			WO 1995-US948	19950127

OTHER SOURCE(S): MARPAT 124:87801
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

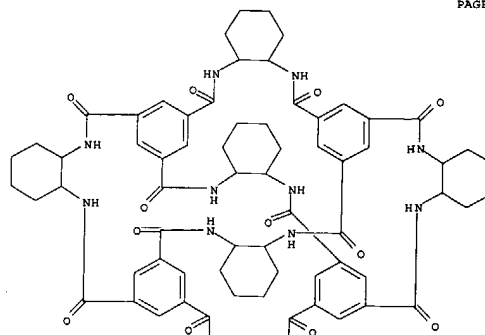
AB Title compds. (I; R1, R2 = H, F, alkyl, aralkyl, alkoxyalkyl, aminoalkyl, alkylaminoalkyl, hydroxyalkyl, cycloalkylalkyl, acylalkyl, aryl, alkylaryl, pyridyl, thienyl, pyrrolyl, indolyl, naphthyl; X = CH₂, NH; Y = CO, SO₂; A = Q1; n = 0-3), were prepared Title compds., e.g. I (R1 = R2 = H, Y = CO, X = CH₂, n = 1) was prepared and tested for peptide binding properties.
 IT 161579-51-7P
 RL: NUU (Other use, unclassified); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation of enantioselective receptors for amino acid deriva. and other compds.)
 RN 161579-51-7 CAPLUS
 CN 9,35:22,48-Bis(methanimino[1,2]benzeniminomethano)-7,11:20,24:33,37:46,50-tetramethenotetrabenz[b,m,x,11][1,4,12,15,23,26,34,37]octaazacyclotetratecracontine-6,12,19,25,32,38,45,51,54,63,65,74-dodecane, 1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a,40,41,42,43,43a,44,52,52a,56,57,58,59,60,61,67,68,69,70,71,72-tetratetracontahydro-, [4aR-(4aR*,13aR*,17aR*,26aR*,30aR*,39aR*,43aR*,52aR

L10 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 ,56R,57R*,67R*,68R*)] - (9CI) (CA INDEX NAME)

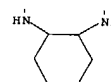
PAGE 1 A

L10 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 2-A

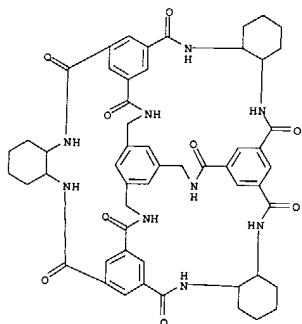


PAGE 3-A

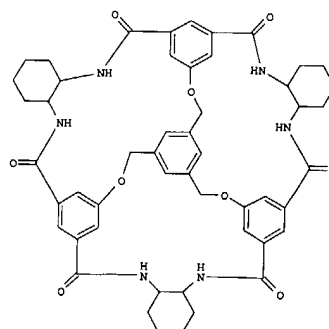


IT 161234-74-8P
 RL: NUU (Other use, unclassified); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
 (preparation of enantioselective receptors for amino acid derivs. and other compds.)
 RN 161234-74-8 CAPLUS
 CN 22,48-(Methaniminomethano)-9,35-(methaniminomethano[1,3]benzenomethanimino methano)-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-6,12,19,25,32,38,41,52,57-nonone, 1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a-tetracosahydro-, [4aR-(4aR*,13aR*,17aR*,26aR*,30aR*,39aR*)] - (9CI) (CA INDEX NAME)

L10 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

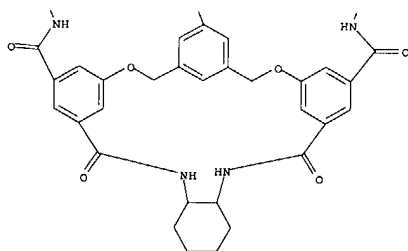
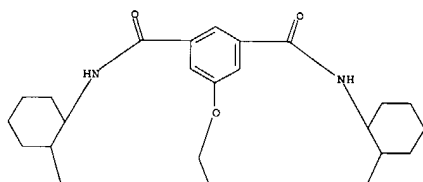


~~L11~~ ANSWER 17 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1995:800553 CAPLUS
 DOCUMENT NUMBER: 124:8781
 TITLE: Synthesis of a novel basket-shaped C3 receptor
 AUTHOR(S): Kim, Tae Woo; Hong, Jong-In
 CORPORATE SOURCE: Department of Chemistry, Seoul National University, Seoul, 151-742, S. Korea
 SOURCE: Bulletin of the Korean Chemical Society (1995), 16(8), 781-3
 CODEN: BKCSDE; ISSN: 0252-2964
 PUBLISHER: Korean Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 124:8781
 GI



I

AB The title compound I was prepared in 4 steps from 1,3,5-tris(bromomethyl)benzene and di-Me 5-hydroxyisophthalate.
 IT 171257-26-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (synthesis of basket-shaped C3 mol. receptor)
 RN 171257-26-4 CAPLUS
 CN 9,47-(Epoxymethano)-22,35-(epoxymethano[1,3]benzenomethanoxy)-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]hexaazacyclotritriacontine-6,12,19,25,32,38-hexone, 1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a-tetracosahydro- (9CI) (CA INDEX NAME)

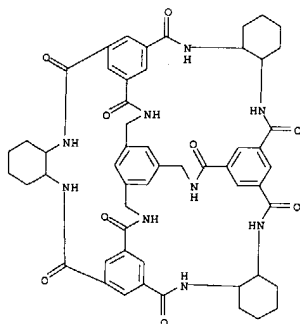


RN 161234-74-8 CAPLUS

CN

22,48-(Methaniminomethano)-9,35-(methaniminomethano[1,3]benzenomethanimino

methano)-11,7:20,24:33,37-trimetheno-7H-tribenzo[b,m,x][1,4,12,15,23,26]he
xaazacyclotritriacontine-6,12,19,25,32,38,41,52,57-nonone,
1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a-
tetracosahydro-, [4aR-(4aR*,13aR*,17aR*,26aR*,30aR*,39aR*)]-(9CI) (CA
INDEX NAME)



ACCESSION NUMBER: 1995:280575 CAPLUS

DOCUMENT NUMBER: 122:161336

TITLE:

AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

PUBLISHER:

DOCUMENT TYPE:

LANGUAGE:

OTHER SOURCE(S):

GI

1995:280575 CAPLUS

122:161336

Brief synthesis of a novel C3-symmetric receptor for

sequence-selective binding of peptides

Yoon, Seung Soo; Still, W. Clark

Dep. Chem., Columbia Univ., New York, NY, USA

Angewandte Chemie (1994), 106(23/24), 2517-20 (See

also Angew. Chem., Int. Ed. Engl., 1994, 33(23/24),

2458-60)

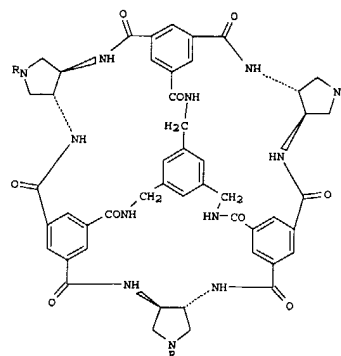
CODEN: ANCEAD; ISSN: 0044-8249

VCH

Journal

German

CASREACT 122:161336



I

AB The receptor I [R = COCH₂CH₂CO OCH₂CH₂NetC₆H₄-4-N:NC₆H₄NO₂-4] was

assembled

in 2 steps. I selectively binds tripeptides at an N5-trityl-D-glutamine
end group. Selectivities for the other amino acids in the tripeptide are
also discussed.

IT 161234-74-8P

RL: SPN (Synthetic preparation); PREP (Preparation)

(synthesis of a novel C3-sym. receptor for sequence-selective binding

L10 ANSWER 19 OF 19 CAPLUS

ACCESSION NUMBER: 1995:237136 CAPLUS

DOCUMENT NUMBER: 122:240405

TITLE:

AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

PUBLISHER:

DOCUMENT TYPE:

LANGUAGE:

OTHER SOURCE(S):

GI

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1995:237136 CAPLUS

122:240405

Cyclooligomeric receptors for the sequence selective

binding of peptides. A tetrahedral receptor from

trimesic acid and 1,2-diamines

Yoon, Seung Soo; Still, W. Clark

Department of Chemistry, Columbia University, New

York, NY, 10027, USA

Tetrahedron Letters (1994), 35(46), 8557-60

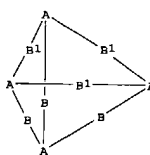
CODEN: TELEAY; ISSN: 0040-4039

Elsevier

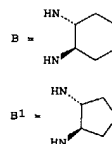
Journal

English

CASREACT 122:240405



I



AB The first members of a new family of tetrahedral receptors I [A =
1,3,5-C₆H₃(CO)₃, Dye = Disperse Red 1] have been prepared from trimesic
acid

and certain chiral 1,2-diamines. A survey of the binding properties of
one of these with a 50,000-member peptide library finds high selectivity
for N-acetylated terminal residues (particularly Ac-D-Gln) and the
dipeptide sequence L-Gln-L-Pro.

IT

RL: NUU (Other use, unclassified); SPN (Synthetic preparation); PREP

(Preparation); USES (Uses)

(preparation of cyclooligomeric tetrahedral receptors from trimesic

acid and

diamines for sequence-selective peptide binding)

RN 161579-51-7 CAPLUS

CN

9,35:22,48-Bis(methanimino[1,2]benzeniminomethano)-7,11:20,24:,33,37:46,50-

tetramethanotetrahedral[b,m,x,il][1,4,12,15,23,26,34,37]octaazacyclotetratet

racontine-6,12,19,25,32,38,45,51,54,63,65,74-dodecane,

1,2,3,4,4a,5,13,13a,14,15,16,17,17a,18,26,26a,27,28,29,30,30a,31,39,39a,40

,41,42,43,43a,44,52,52a,56,57,58,59,60,61,67,68,69,70,71,72-

tetratetracontahydro-,

[4aR-(4aR*,13aR*,17aR*,26aR*,30aR*,39aR*,43aR*,52aR

,56R,57R*,67R*,68R*)]-(9CI) (CA INDEX NAME)

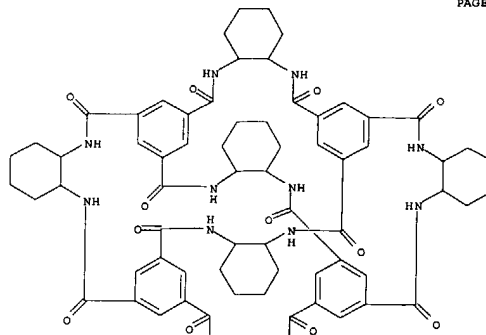
10/071,377

L10 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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L10 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 2-A



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